

:L

1 \*/ ~~ROC.BANK1 LASTED 12.29.83~~  
2 \*\*\*\*\*

:PR#0

:L

```
1 */ ROC.BANK1 LASTED 12.29.83.
2 * MAIN FILE FOR ROC N ROPE BANK1
3 * VERTICAL INTERVAL CODE
4 *****
5 PAINT      =      $FD00
6 BEGORG     =      $E000
7 BEGOBJ     =      $8004
8           LST  ON
9           PUT  ROC.VCSDEF1
10          PAG
11          PUT  ROC.EQU
12          PAG
13 *****
14 * EQUATES TO BANK2 LABELS      *
15 *****
16          PUT  ROC.EQU2
17          ;
18          ORG  BEGORG-4
19          DA  BEGORG      ;START ADDR.
20          DA  END        ;END ADDR.
21          ;
22 *****
23 *   BANK SWITCH CODE-->      *
24 *****
25          ;
26 * SWITCH TO BANK2->
27 *-----
28 TOPSW
29          LDA  $FFF9
30          JMP  PAINT      ;GO PAINT CLIFFS.
31 * COME HERE FROM BANK2-->
32 *-----
33          NOP
34          NOP
35          NOP
36          NOP
37          JMP  BOTVI
38          NOP
39          NOP
40          NOP
41          NOP
42          NOP
43          PAG
44 *****
45 * POWERUP INITIALIZATION->    *
46 *****
47          PUT  ROC.INIT
48          PAG
49 *****
50 * BOTTOM VERTICAL INTERVAL      *
51 *****
52 BOTVI
53          LDA  #BOTTIM
54          STA  TIME64
55          ;
56          PUT  ROC.JOY
```

WCES DEMO  
ROC.BANK 1  
Prom #5

```

57      PAG
58      PUT ROC.BOTVI
59      PAG
60      *****
61      *      TOP VERTICAL INTERVAL      *
62      *****
63      PUT ROC.TOPVI
64      PAG
65      *****
66      *      SET UP DISPLAY RAM->      *
67      *****
68      PUT ROC.SETUP
69      PAG
70      *****
71      *      PAINT SCORE/TITLE      *
72      *****
73      PUT ROC.TITLE
74      PAG
75      *****
76      *      SOUND TABLES      *
77      *****
78      PUT ROC.SONGS
79      PAG
80      PUT ROC.SUBS1
81      PAG
82      OBJ BEGOBJ+$B00
83      ORG BEGORG+$B00
84      PUT ROC.CLIFFHIT
85      PAG
86      *****
87      *      BIRD + MISC IMAGES-->      *
88      *****
89      OBJ BEGOBJ+$C00
90      ORG BEGORG+$C00
91      PUT ROC.BIRD1
92      PAG
93      OBJ BEGOBJ+$D00
94      ORG BEGORG+$D00
95      *****
96      *      IMAGE & ADDRESS TABLES      *
97      *****
98      PUT ROC.SCORE RTN
99      PAG
100     PUT ROC.ADDRESS TABLES
101     PAG
102     *****
103     *      LETTER IMAGE TABLES-->      *
104     *****
105     OBJ BEGOBJ+$E00
106     ORG BEGORG+$E00
107     PUT ROC.LETTERS
108     PAG
109     *****
110     *      DIGIT IMAGE TABLES->      *
111     *****
112     OBJ BEGOBJ+$ED0
113     ORG BEGORG+$ED0
114     PUT POSITION.TABLE
115     PAG
116     PUT DIGITS2
117     PAG
118
119     *****
120     *      RESET VECTOR      *
121     *****
122     OBJ BEGOBJ+$FFC

```

122  
123  
124  
125 END

ORG BEGORG+\$FEC  
DA PWRUP

:ASM

```
1  */ ROC.BANK1  LASTED 12.29.83.
2  * MAIN FILE FOR ROC N ROPE BANK1
3  * VERTICAL INTERVAL CODE
4  ****
5  PAINT      =    $FD00
6  BEGORG     =    $E000
7  BEGOBJ     =    $8004
9             PUT  ROC.VCSDEF1
>1  *ROC.VCSDEF1  LASTED 12.20.83
>2  *ATARI VCS VIDEO REGS + 6532 RIOT
>3  ****
>4  ATSYNC    =    $00
>5  ATBLNK    =    $01
>6  ATWAIT    =    $02
>7  *ATHORC   =    $03
>8  ATACTL    =    $04
>9  ATBCTL    =    $05
>10 ATACOL    =    $06
>11 ATBCOL    =    $07
>12 *ATFCOL   =    $08
>13 ATSCOL    =    $09
>14 ATFCTL    =    $0A
>15 ATAORD    =    $0B
>16 ATBORD    =    $0C
>17 *ATFRO    =    $0D
>18 *ATFR1     =    $0E
>19 *ATFR2     =    $0F
>20 ATSALA    =    $10
>21 ATSB LA   =    $11
>22 *ATMALA   =    $12
>23 *ATMBLA   =    $13
>24 *ATFMLA   =    $14
>25 ATAWAV    =    $15
>26 *ATBWAV   =    $16
>27 ATADIV    =    $17
>28 *ATBDIV   =    $18
>29 ATAVOL    =    $19
>30 *ATBVOL   =    $1A
>31 ATADAT    =    $1B
>32 ATBDAT    =    $1C
>33 *ATENMA   =    $1D
>34 *ATENMB   =    $1E
>35 *ATENFM   =    $1F
>36 ATSAIN    =    $20
>37 ATSBIN    =    $21
>38 *ATMAIN   =    $22
>39 *ATMBIN   =    $23
>40 *ATFMIN   =    $24
>41 ATASEL    =    $25
>42 ATBSEL    =    $26
>43 *ATFSEL   =    $27
>44 *ATMATK   =    $28
>45 *ATMBTK   =    $29
>46 ATMVIN    =    $2A
>47 ATREMV    =    $2B
>48 *ATRHIT   =    $2C
>49 *ATCMAS   =    $30
>50 *ATCMBS   =    $31
>51 *ATCSAF   =    $32
>52 *ATCSBF   =    $33
>53 *ATCMAF   =    $34
```



>53	*ATCMHF	=	\$34
>54	*ATCMBF	=	\$35
>55	*ATCFF	=	\$36
>56	*ATCMS	=	\$37
>57	*ATPADA	=	\$38
>58	*ATPADB	=	\$39
>59	*ATPADC	=	\$3A
>60	*ATPADD	=	\$3B
>61	ATJBA	=	\$3C
>62	*ATJBB	=	\$3D
>63	JOYDAT	=	\$280
>64	*JOYBUP	=	\$01
>65	*JOYBDN	=	\$02
>66	*JOYBLT	=	\$04
>67	*JOYBRT	=	\$08
>68	JOYAUP	=	\$10
>69	JOYADN	=	\$20
>70	JOYALT	=	\$40
>71	JOYART	=	\$80
>72	*PADAPB	=	\$04
>73	*PADBFB	=	\$08
>74	*PADCFB	=	\$40
>75	*PADDPB	=	\$80
>76	*IOADIR	=	\$281
>77	SWITCH	=	\$282
>78	SWIRES	=	\$01
>79	SWISEL	=	\$02
>80	SWICOL	=	\$08
>81	*SWIADF	=	\$40
>82	*SWIBDF	=	\$80
>83	*IOBDIR	=	\$283
>84	TIMER	=	\$284
>85	*INTFLG	=	\$285
>86	*TIME1	=	\$294
>87	*TIME8	=	\$295
>88	TIME64	=	\$296
>89	*TIME1K	=	\$297

```

11          PUT   ROC.EQU
>1          */ROC N ROPE EQU-LASTED 12.21.83
>2
>3          ****
>4          *      GAME CONTROL RAM      *
>5          ****
>6          GAME      =      $B0          ;GAME NUM
>7          PLAYER    =      $B0          ;B7=PLAYER UP.
>8          MODE      =      $B1          ;GAME MODE.
>9          ROUND1     =      $B2          ;RND NUM PLAYER 1.
>10         *ROUND2 = $B3 ;RND NUM PLAYER 2.
>11         TOGO      =      $B4          ;B0-B3=TOGO PLAYER 1.
>12                                     ;B4-B7=TOGO PLAYER 2.
>13         FRAMEL     =      $B5
>14         FRAMEH     =      $B6
>15         BTIME      =      $B7          ;BUTTON DOWN TIMER.
>16
>17         ****
>18         *      SCORE DATA      *
>19         ****
>20         SCOR1L     =      $B8          ;PLAYER 1 SCORE LO.
>21         *SCOR2L = $B9
>22         SCOR1M     =      $B8A        ;PLAYER 1 SCORE MED.
>23         *SCOR2M = $BB
>24         SCOR1H     =      $B8C        ;PLAYER 1 SCORE HI.
>25         *SCOR2H = $BD
>26
>27         ****
>28         *      B O N U S   P O I N T S      *
>29         ****
>30         BONUSL     =      $BE
>31         BONUSH     =      $BF
>32
>33
>34         ****
>35         *      SOUND DATA      *
>36         ****
>37         AIDX       =      $90
>38         BIDX       =      $91
>39         ADUR       =      $92
>40         BDUR       =      $93
>41
>42         ****
>43         *      E X P L O R E R   R A M      *
>44         ****
>45         EXPLN      =      $94          ;V POS.
>46         EXPPOS     =      $95          ;H POS.
>47         EXPDAT     =      $96          ;DATA PTR.
>48         EXPSTAT    =      $97          ;EXP STATUS.
>49                                     ;GOING UP ROPE.
>50                                     ;CLIMBING DOWN ROPE.
>51                                     ;CLIMBING DOWN ICICLE.
>52                                     ;DOING DEATH DANCE.
>53                                     ;B7=0=FLASH LIGHT ON.
>54                                     ;B4=1=FALLING.
>55                                     ;B3= EXP DIRECTION.
>56                                     ;B0-B2=TIME TO LV LITE ON.
>57         ****
>58         *      D I N O / C A V E M A N   R A M (5)*
>59         ****
>60         DINLN      =      $98          ;V POS.
>61         DINPOS     =      $9D          ;H POS.
>62         DINDAT     =      $A2          ;ING PTR.
>63         DINGST     =      $A7          ;DINO STATUS-->
>64         DINDIR     =      $A7          ;DIRECTION/SPD.

```

```

>65 ;B4-B5=DIR(UDLR).
>66 ;B3=ORD BIT.
>67 ;B0-B2=COUNTDOWN FOR
>68 ; STUNNED BY LIGHT.
>69 ;O=NOT STUNNED.
>70 ;
>71 ;
>72 ;
>73 *****
>74 * EGG / FEATHER RAM *
>75 *****
>76 EGGPOS = $B1 ;ON/OFF
>77 ;B0-B3=RT SIDE BANDO-BAND3 EGGS
>78 ;B4-B7=LFT SIDE BANDO-BAND3 EGGS.
>79 PWRTIM = $B2 ;INVINCIBLE TIMER.
>80 ;O=NOT INVINCIBLE.
>81 ;
>82 *****
>83 * ELEVATOR/WATERFALL RAM *
>84 *****
>85 ELEVST = $B3 ;ON/OFF
>86 ;DIR (UP/DOWN)
>87 ;V POS.
>88 ELEVDAT = $B4 ;IMG PTR.
>89 ;
>90 *****
>91 * ROPE RAM *
>92 *****
>93 ROPELN = $B5 ;TOP LN.
>94 ;B0-B3 = LN OFFSET/2.
>95 ;B5-B7 = BAND.
>96 ROPPOS = $B6 ;ROPE H POS.
>97 ;
>98 ROPEST = $B7 ;ROPE STATUS:
>99 ;B6-B7=MODE:
>100 ;$00=OFF
>101 ;$C0=ANK (PLANTED)
>102 ;$80=PULL (RETRACTING)
>103 ;$40=PUSH (SHOOTING)
>104 ;B3=ORD VAL.
>105 ;B0=1=EXP IS ON ROPE.
>106 *****
>107 * PTERODACTYL RAM *
>108 *****
>109 BIRDPOS = $B8 ;HPOS.
>110 TERIST = $B9 ;STATUS.
>111 ROCKLN = $BA ;VPOS.
>112 ROCKPOS = $BB ;HPOS.
>113 ;

```



```

>115 *****
>116 *   DISPLAY   RAM   *
>117 *****
>118                                     ; SA ORD (B3).
>119                                     ; ORD+AINC ARE PACKED.
>120 AORD      =      $BC                                     ; (5)
>121                                     ; SA INCR (B4-B7)
>122 SAIN      =      $BC                                     ; (5)
>123 ACOL      =      $C1                                     ; (5)
>124                                     ;
>125 ADATHI    =      $C6                                     ; (5)
>126 ADATLO    =      $CB                                     ; (5)
>127 ADAT      =      $CF                                     ; (ADAT)=$CF+$D0.
>128                                     ;
>129 BDATLO    =      $D1                                     ; (5)
>130 BDAT      =      $D5                                     ; (BDAT)=$D5+$D6.
>131                                     ;
>132 BCOLLO    =      $D7                                     ; (5)
>133 BCOL      =      $DB                                     ; (BCOL)=$DB+$DC
>134                                     ;
>135 FMLO      =      $DD                                     ; (5)
>136 FM        =      $E1                                     ; (FM)=$E1+$E2.
>137                                     ;
>138 MALD      =      $E3                                     ; (5)
>139 MA        =      $E7                                     ; (MA)=$E7+$EB.
>140                                     ;
>141 MBLO      =      $E9                                     ; (5)
>142 MB        =      $ED                                     ; (MB)=$ED+$EE.
>143                                     ;
>144 *****
>145 *   SA POS RTN ADDRESSES   *
>146 *****
>147 SAPOS4    =      $F6                                     ; BAND 4. (TOP).
>148 SAPOS3    =      $F8                                     ;      3.
>149 SAPOS2    =      $FA                                     ;      2.
>150 SAPOS1    =      $FC                                     ;      1.
>151 SAPOS0    =      $FE                                     ;      0.
>152                                     ;
>153 *****
>154 *   TEMP   RAM   *
>155 *****
>156                                     ;
>157 TEMP11    =      $E8
>158 TEMP12    =      $E9
>159 TEMP13    =      $EA
>160 TEMP4     =      $F4
>161 TEMP5     =      $F5
>162 TEMP6     =      $F6
>163 TEMP7     =      $F7
>164 TEMP8     =      $F8
>165                                     ;
>166 BAND      =      $EF
>167 TEMP1     =      $EF
>168 TEMP2     =      $F0
>169 TEMP3     =      $F1
>170                                     ;
>171 PD100K    =      $F2
>172 PD10K     =      $F4
>173 PD1K      =      $F6
>174 PD100     =      $F8
>175 PD10      =      $FA
>176 PD1       =      $FC
>177                                     ;

```

```

>179 *****
>180 *      E Q U A T I E S      *
>181 *****
>182
>183 * TIMER VALUES *
>184 *****
>185 TOPTIM   =   $A8
>186 BOTTIM   =   $94
>187
>188 * COLORS *
>189 *****
>190 BLACK    =   0
>191 WHITE    =   $0E
>192 RED      =   $26
>193 YELLOW   =   $1A
>194 GREEN    =   $D4
>195 ORANGE   =   $28
>196 LBLUE   =   $94
>197 BLUE     =   $9A
>198 PURPLE   =   $68
>199 BROWN    =   $F6
>200 LBROWN   =   $18
>201 TAN      =   $FC
>202
>203 * GAME MODES *
>204 *****
>205 PLAY     =   $01
>206 TITLEM  =   $02
>207 GOVER    =   $03
>208 SELECT  =   $04
>209
>210 RESUM    =   $05

```



```

13 *****
14 * EQUATES TO BANK2 LABELS *
15 *****
16 PUT ROC.EQU2
>1 */ ROC.EQU2 LASTED:12.19.83
>2
>3 *****
>4 * EQUATES FOR BANK2 LABELS *
>5 *****
>6 ;COLOR TBLS->
>7 WHITETB = $F600
>8 YELOTB = $F62D
>9 REDTBL = $F649
>10 EXPCOL = $F61C
>11
>12 NULLX = $F97A
>13 NULLM = $F6DC
>14 EGG1 = $F6D4
>15 FLIGHT = $F99E
>16 ROPE1 = $F66D
>17 ROPE2 = $F665
>18 MISC = $F600
>19
>20 EXP1 = $F900
>21 EXP2 = $F91B
>22 EXP3 = $F936
>23 EXP4 = $F969
>24 EXP5 = $F9D6
>25
>26 CAVE1 = $F800
>27 CAVE2 = $F800
>28 CAVE3 = $F81B
>29 CAVE4 = $F836
>30 CAVE5 = $F851
>31 CAVE6 = $F86C
>32 CAVE7 = $F851
>33 CAVE8 = $F887
>34 CAVE9 = $F8A2
>35 CAVEX = $F8BD
>36 CAVEZ = F8CE
>37 DIN01 = $F700
>38 DIN02 = $F71B
>39 DIN03 = $F736
>40 DIN04 = $F751
>41 DIN05 = $F76C
>42 DIN06 = $F787
>43 DIN07 = $F76C
>44 DIN08 = $F7A2
>45 DIN09 = $F7BE
>46 DIN0X = $F7D9
>47
>48 ELEV1 = $F6AA
>49 ELEV2 = $F6AC
>50 ELEV3 = $F6AE
>51 ELEV4 = $F6B0
>52 ELEV5 = $F6B2
>53 ELEV6 = $F6B4
>54 ELEV7 = $F6B6
>55 ELEV8 = $F6B8
>56
>57 WATER1 = $F6B0
>58 WATER2 = $F6B2
>59 WATER3 = $F6B4
>60 WATER4 = $F6B6
>61 WATER5 = $F6B0

```

;MISC IMGS->

;EXP IMGS->

;CAVEMAN IMGS->

;NULL D/C IMG  
;DINO IMGS->

;ELEVATOR IMGS->

;WATERFALL IMGS->

```

>62 WATER6 = $F6B2
>63 WATER7 = $F6B4
>64 WATER8 = $F6B6
>65
>66 ; POS RTNS->
>67 LAT1 = $FF10
>68 LAT2 = $FF31
>69 LAT3 = $FF38
>70 LAT4 = $FF59
>71 LAT5 = $FF67
>72 LAT6 = $FF87
>73 LAT7 = $FFA2
>74 LAT8 = $FF8B
>75
17
18 ORG BEGORG-4
DFFC: 00 E0 19 DA BEGORG ; START ADDR.
DFFE: FE EF 20 DA END ; END ADDR.
21
22 *****
23 * BANK SWITCH CODE--> *
24 *****
25
26 * SWITCH TO BANK2->
27 *-----
28 TOPSW
E000: AD F9 FF 29 LDA $FFF9
E003: 4C 00 FD 30 JMP PAINT ; GO PAINT CLIFFS.
31 * COME HERE FROM BANK2-->
32 *-----
E006: EA 33 NOP
E007: EA 34 NOP
E008: EA 35 NOP
E009: EA 36 NOP
E00A: 4C 24 E0 37 JMP BOTVI
E00D: EA 38 NOP
E00E: EA 39 NOP
E00F: EA 40 NOP
E010: EA 41 NOP
E011: EA 42 NOP

```

```

44 *****
45 * POWERUP INITIALIZATION-2 *
46 *****
47 PUT FOC.INIT
>1 */ROC N'ROPE INIT LASTED:11/22/83.
>2 FWRUP
>3 SEI
>4 CLD
>5 LDX #0
>6 TXA
>7 CLRAM STA 0,X
>8 TXS
>9 INX
>10 BNE CLRAM
>11 *
>12 ;ROUND=0
E01D: 20 E0 EB >13 JSR IGAME ;INIT GAME/RND RELATED RAM.
E020: 49 02 >14 LDA #TITLEM
E022: 85 81 >15 STA MODE
>16 ;

```



E024: A9 94  
E026: 8D 76 02

```
49 *****
50 * BOTTOM VERTICAL INTERVAL *
51 *****
52 BOTVI
53 LDA #BOTTIM
54 STA TIME64
55
56 PUT ROC.JOY
>1 */ROC.JOY LASTED: 12.29.83
>2 *****
>3 * JOYSTICK READ RTN *
>4 *****
>5 * JOYDAT MASKS (LO NIBBLE) *
>6 * *
>7 * NOJOY = 0 *
>8 * U = 1 *
>9 * D = 2 *
>10 * ILLEG = 3 *
>11 * L = 4 *
>12 * UL = 5 *
>13 * DL = 6 *
>14 * ILLEG = 7 *
>15 * R = 8 *
>16 * UR = 9 *
>17 * DR = 10 (A) *
>18 *****
>19
```

E029: E6 85  
E02B: 90 02  
E02D: E6 86

E02F: A5 81  
E031: C9 01  
E033: 90 45

E035: A5 97  
E037: 29 10  
E039: D0 3F

E03B: A5 85  
E03D: 29 01  
E03F: D0 39

E041: AD 80 02  
E044: 49 FF  
E046: 85 EF  
E048: 4C 7D E0

E04B: A6 90  
E04D: 30 04

E04F: 4A  
E050: 4A  
E051: 4A  
E052: 4A

E053: 29 0F  
E055: 95 EF

E057: AB  
E058: BE 64 E0  
E05B: B9 6F E0  
E05E: 20 56 E9

```
>20 INC FRAMEL
>21 BNE FRNE
>22 INC FRAMEH
>23 FRNE
>24 LDA MODE
>25 CMP #PLAY ;PLAY MODE?
>26 BNE NJOY ;JOY N.
>27
>28 LDA EXPSTAT
>29 AND #$10 ;EXP FALLING?
>30 BNE NJOY ;JOY.
>31
>32 JOYRD
>33
>34 LDA FRAMEL
>35 AND #1
>36 BNE NJOY
>37
>38 LDA JOYDAT
>39 EOR #$FF
>40 STA TEMP1
>41 JMP READIT
>42
>43 LDX PLAYER
>44 BMI PLAY2
>45
>46 LSR
>47 LSR
>48 LSR
>49 LSR
>50 PLAY2
>51 AND #$0F ;MP LO NIB ONLY.
>52 STA TEMP1 ;SV JOY.
>53
>54 TAY
>55 LDX HOFF,Y
>56 LDA VOFF,Y
>57 JSR MOVEXP
```

*JMP*

E061:	4C	2D	E1	>60	JMP	JOY99	
				>61			
E064:	00			>62	DFB	0	
E065:	00			>63	DFB	0	;UP
E066:	00			>64	DFB	0	;DOWN
E067:	00			>65	DFB	0	;ILLEG
E068:	FF			>66	DFB	\$FF	;LEFT
E069:	FE			>67	DFB	\$FE	;UL(U1L2)
E06A:	FE			>68	DFB	\$FE	;DL(D1L2)
E06B:	00			>69	DFB	\$0	;ILLEG
E06C:	01			>70	DFB	1	;RIGHT
E06D:	02			>71	DFB	2	;UR(U1R2)
E06E:	02			>72	DFB	2	;DR(D1R2)
				>73			
E06F:	00			>74	DFB	0	;NO JOY
E070:	01			>75	DFB	1	;U
E071:	FF			>76	DFB	\$FF	;D
E072:	00			>77	DFB	0	;ILLEG
E073:	00			>78	DFB	0	;L
E074:	01			>79	DFB	1	;UL
E075:	FF			>80	DFB	\$FF	;DL
E076:	00			>81	DFB	0	;ILLEG
E077:	00			>82	DFB	0	;R
E078:	01			>83	DFB	1	;UR
E079:	FF			>84	DFB	\$FF	;DR
				>85			:
E07A:	4C	2D	E1	>86	JMP	JOY99	
				>87			
				>88			
E07D:	A9	10		>89	LDA	#\$10	JOYAUP.
E07F:	25	EF		>90	AND	TEMP1	
E081:	F0	21		>91	BEQ	NUP	;J NOT UP.
E083:	20	00	EB	>92	JSR	ONPLAT	;ON PLATFORM?
E086:	D0	09		>93	BNE	MVUP	;J N.
E088:	A5	85		>94	LDA	FRAMEL	
E08A:	29	1F		>95	AND	#\$1F	
E08C:	F0	03		>96	BEQ	MVUP	
E08E:	4C	2D	E1	>97	JMP	JOY99	;DELAY ON CLIFF.
				>98			
				>99			
				>100			
				>101			
E091:	A5	3C		>102	LDA	ATJBA	
E093:	10	E5		>103	BPL	NJOY	;J BUT DOWN TOO.
E095:	A6	94		>104	LDX	EXPLN	
E097:	E0	70		>105	CPX	#112	
E099:	B0	DF		>106	BCS	NJOY	;J AT TOP.
E09B:	E6	94		>107	INC	EXPLN	;MOVE EXP UP.
E09D:	A9	03		>108	LDA	#3	
E09F:	85	96		>109	STA	EXPDAT	;PATCH.
E0A1:	4C	2D	E1	>110	JMP	JOY99	
				>111			
				>112			
				>113			
				>114			
E0A4:	A9	20		>115	LDA	#JOYADN	
E0A6:	25	EF		>116	AND	TEMP1	
E0A8:	F0	1B		>117	BEQ	NDOWN	;J NOT DOWN.
E0AA:	20	00	EB	>118	JSR	ONPLAT	
E0AD:	D0	09		>119	BNE	MVDOWN	;J NOT ON PLATFORM.
E0AF:	A5	85		>120	LDA	FRAMEL	
E0B1:	29	1F		>121	AND	#\$1F	
E0B3:	F0	03		>122	BEQ	MVDOWN	
E0B5:	4C	2D	E1	>123	JMP	JOY99	

```

E0B5: A5 94 >124 MVDOWN
E0B6: F0 BE >125
E0B7: C4 94 >126 LDY EXPLN
E0B8: A9 03 >127 BEQ NOJY ;J AT BOTTOM.
E0C0: 85 96 >128 DEC EXPLN ;MOVE DOWN 1 LINE.
E0C2: 4C 2D E1 >129 LDA #3
>130 STA EXPDAT ;PATCH
>131 JMP JOY99
>132 NDOWN
E0C5: 20 00 EB >133 JSR ONPLAT
E0C8: D0 63 >134 BNE JOY99 ;J NOT ON PLATFORM.
>135 *****
>136 * WALKING ON A PLATFORM??? *
>137 *****
E0CA: A9 30 >138 LDA #JOYART
E0CB: 25 EF >139 AND TEMP1
E0CC: F0 11 >140 BEQ NRITE ;J NOT RIGHT.
>141 ;
E0D0: A9 F7 >142 LDA #$F7
E0D2: 25 97 >143 AND EXPSTAT
E0D4: 85 97 >144 STA EXPSTAT ;FOR ORD.
E0D6: A6 95 >145 LDX EXPPOS
E0D8: E0 7F >146 CPX #127
E0DA: B0 51 >147 BCS JOY99
E0DC: E6 95 >148 INC EXPPOS ;MOVE EXP RIGHT.
E0DE: 4C F5 ED >149 JMP JOY77
>150 NRITE
E0E1: A9 40 >151 LDA #JOYALT
E0E3: 25 EF >152 AND TEMP1
E0E5: F0 46 >153 BEQ JOY99
>154 ;MV LEFT-
E0E7: A9 08 >155 LDA #8
E0E9: 05 97 >156 ORA EXPSTAT
E0EB: 85 97 >157 STA EXPSTAT ;FOR ORD.
>158 ;
E0ED: A6 95 >159 LDX EXPPOS
E0EF: E0 06 >160 CPY #6
E0F1: 90 3A >161 BCC JOY99
E0F3: C6 95 >162 DEC EXPPOS ;MOVE EXP LEFT.
>163 JOY77
E0F5: A5 B7 >164 LDA ROPEST
E0F7: 29 C0 >165 AND #$C0
E0F9: C9 C0 >166 CMP #$C0 ;ANCHORED?
E0FB: F0 04 >167 BEQ JOY80
E0FD: A9 00 >168 LDA #0
E0FF: 85 B7 >169 STA ROPEST ;ROPE OFF.
>170 JOY80
>171 ;WALKED OFF EDGE???
E101: A5 94 >172 LDA EXPLN
E103: A2 00 >173 LDX #0
>174 GBAND
E105: 38 >175 SEC
E106: E9 1C >176 SBC #28
E108: 30 04 >177 BMI HBAND
E10A: EB >178 INX
E10B: 4C 05 E1 >179 JMP GBAND
>180 HBAND
E10E: E0 00 >181 CPX #0
E110: F0 18 >182 BEQ JOY88 ;SKIP ON LOWEST LVL.
E112: E0 05 >183 CPX #5
E114: B0 14 >184 BCS JOY88
>185 *****
>186 * TEST IF EXP ON CLIFF--> *
>187 *****
E116: A5 95 >188 LDA EXPPOS
E118: 18 >189 CLC

```



```

E119: 39 03 >190      ADC  #3
E118: 20 1F EB >191  CLTEST
E11E: B0 04 >192      JSR  CLIFFHIT
                        BCS  JOY88
                        J N.
>193
>194
>195 *****
>196 *   EXPLORER IS FALLING OFF   *
>197 *   EDGE OF CLIFF--->>>   *
>198 *****
E120: A7 10 >199      LDA  #10
E122: 05 97 >200      ORA  EXPSTAT
E124: 85 97 >201      STA  EXPSTAT      ;START FALLING.
E126: A9 03 >202      LDA  #3
E128: 85 96 >203      STA  EXPDAT
>204  JOY88
E12A: 20 3A E9 >205      JSR  ANIMEXP
>206  JOY99

```

```

203 *****
209 * JOY BUTTON READ--> *
210 *****
211 BUTTON
212 LDA ATJBA ;RD JOY BUTTON A.
213 BPL BUTDN
214 *****
215 * BUTTON IS UP---> *
216 *****
217 LDA #0
218 STA TOGO ;PATCH TO SHOW BUT IS UP.
219 ;
220 LDA ROPEST
221 AND #$C0
222 CMP #$40 ;SHOOTING?
223 BNE NOBUT ;J N.
224 ;START RETRACT->
225 LDA ROPEST
226 AND #$3F ;RMV. MODE.
227 ORA #$80
228 STA ROPEST
229 BNE NOBUT
230 ;
231 *****
232 * BUTTON IS DOWN--> *
233 *****
234 BUTDN
235 LDA EXPSTAT
236 BPL BD5 ;LITE ALREADY ON.
237 LDA JOYDAT
238 EOR #$FF
239 AND #$10 ;JOY UP?
240 BNE BD5 ;J Y.
241 ;
242 LDA EXPSTAT
243 AND #$7F ;LITE ON
244 ORA #$07 ;COUNT.
245 STA EXPSTAT
246 ;PLAY MUSIC.
247 *LDA #0
248 *STA ADUR
249 *LDA #FVBULL-FVTBL
250 *STA AIDX
251 *****
252 * SHOULD WE START SHOOT ROPE? *
253 *****
254 BD5
255 LDA ROPEST
256 AND #$C0
257 BEQ BD55 ;J OFF.
258 ;
259 CMP #$C0 ;PLANTED?
260 BNE NOBUT ;J N.
261 ;
262 LDA TOGO ;PATCH
263 BNE NOBUT ;J BUT WAS NOT RELEASED.
264 ;
265 ;
266 BD55
267 JSR ONPLAT
268 BNE NOBUT ;ONLY SHOOT IF EXP ON PLATFORM.
269 ;
270 LDA JOYDAT
271 EOR #$FF
272 AND #$10 ;JOY UP?

```

*out*

E178: A5 97  
E17A: 29 08  
E17C: D0 08

E17E: A5 95  
E180: 18  
E181: 69 23  
E183: 10 00

E185: A9 7F  
E187: F0 09

E189: A5 95  
E18B: 38  
E18C: C7 23  
E18E: 10 02  
E190: A9 00

E192: 85 B6

E194: A5 97  
E196: 29 08  
E198: 09 40  
E19A: 85 B7

E19C: A5 94  
E19E: A0 00

E1A0: 38  
E1A1: E9 1C  
E1A3: 30 03  
E1A5: 08  
E1A6: 10 F8

E1A8: 98  
E1A9: 0A  
E1AA: 0A  
E1AB: 0A  
E1AC: 0A  
E1AD: 0A  
E1AE: 39 0D  
E1B0: 85 B5

E1B2: A9 FF  
E1B4: 85 B4

```

0273      ;
0274      ;
0275      *****
0276      * WHICH WAY IS EXP FACING??? *
0277      *****
0278      LDA EXPSTAT
0279      AND #8
0280      BNE XFACEL      ;C FACING LEFT.
0281      *****
0282      * SHOOT ROPE FROM RT TO LEFT-> *
0283      *****
0284      LDA EXFPOS
0285      CLC
0286      ADC #35
0287      BPL SVRPOS      ;J GOOD SHOT.
0288      ;
0289      LDA #127
0290      BEQ SVRPOS      ;SET UP BAD POS.
0291      ;
0292      *****
0293      * SHOOT ROPE FROM LEFT TO RT-> *
0294      *****
0295      XFACEL
0296      LDA EXFPOS
0297      SEC
0298      SBC #35
0299      BPL SVRPOS      ;J GOOD POS.
0300      LDA #0          ;BADPOS.
0301      SVRPOS
0302      STA ROPPOS
0303      ;
0304      *****
0305      * SET "ROPE EXTENDING" FLAG-> *
0306      *****
0307      BD6
0308      LDA EXPSTAT
0309      AND #8
0310      ORA #$40        ;SHOOT MODE.
0311      STA ROPEST
0312      ;
0313      *****
0314      * INIT ROPE LINE NUM--> *
0315      *****
0316      LDA EXPLN
0317      LDY #0
0318      RMDR
0319      SEC
0320      SEC #28
0321      BMT RMDR5
0322      INY
0323      BPL RMDR
0324      RMDR5
0325      TYA
0326      ASL
0327      ASL
0328      ASL
0329      ASL
0330      ASL
0331      ORA #13
0332      STA ROPELN      ;SV ROPE BAND/LN=13.
0333      NCBUTD
0334      LDA #$FF
0335      STA T0G0        ;SHOW BUT WAS DOWN PATCH****
0336      NOBUT
0337      *****
0338      * SWITCH READING---> *
0339      ;

```



```

* SWITCH RE-DEFINE-----
*-----*
>339
>340 SWIT
E1B5: AD 82 02 >341 LDA SWITCH ;RD SWITCHES.
E1B7: 49 FF >342 EOR #$FF
E1B8: 29 01 >343 AND #SWIRES ;RESET?
E1BD: F0 03 >344 BEQ NORES ;JP NO.
E1BF: 4C 12 E0 >345 JMP PWRUP ;REINIT SCREEN PARAMS.
>346 NORES
E1C2: A5 85 >347 LDA FRAMEL
E1C4: 29 1F >348 AND #$1F
E1C6: D0 28 >349 BNE NOSEL
>350
E1C8: AD 82 02 >351 LDA SWITCH
E1CB: 49 FF >352 EOR #$FF
E1CD: 29 02 >353 AND #SWISEL ;JP SELECT NOT DOWN.
E1CF: F0 1F >354 BEQ NOSEL
>355
>356 * SHOW "STAGE X" SCREEN->
>357 *-----*
E1D1: A9 05 >358 LDA #RESUM ;SELECT
E1D3: C5 81 >359 CMP MODE
E1D5: F0 19 >360 BEQ NOSEL ;J ALREADY IN RESUM MODE.
>361
>362 * UP ROUND NUM (SCREEN #)-->
>363 *-----*
E1D7: A6 32 >364 LDX ROUND1 ;GAME
E1D9: E0 02 >365 CPX #2
E1DB: D0 02 >366 BNE NUGAM
E1DD: A2 FF >367 LDX #$FF
>368 NUGAM
E1DF: E8 >369 INX
E1F0: 86 32 >370 STX ROUND1 ;GAME
>371
E1E2: 20 F4 E8 >372 JSR IROUND
>373
>374 ;PLAY SCREEN 1 SONG->
E1E5: A2 FF >374 LDX #$FF
E1E7: 86 92 >375 STX ADUR
E1E9: 86 93 >376 STX BDUR
E1EB: 58 >377 INX
E1EC: 86 19 >378 STX ATAVOL
E1EE: 86 1A >379 STX ATAVOL+1
>380
>381 NOSEL
>382
E1F0: A5 81 >383 LDA MODE
E1F2: C9 05 >384 CMP #RESUM
E1F4: D0 08 >385 BNE NOSEL2
>386
E1F6: A5 85 >387 LDA FRAMEL
E1F8: D0 04 >388 BNE NOSEL2
>389
>390 * START PLAY MODE-->
>391 *-----*
E1FA: A9 01 >392 LDA #PLAY
E1FC: 85 81 >393 STA MODE
>394 NOSEL2
>395
>396 * TIME TO CHANGE SCREENS FROM
>397 * TITLE TO STAGE #???
>398 *-----*
E1FE: A9 02 >399 LDA #TITLEM
E200: C5 81 >400 CMP MODE
E202: D0 10 >401 BNE NOTTL
>402
E204: A5 93 >403 LDA BDUR ;SONG ON?
E206: 10 0C >404 ERL NOTTL

```

E200: A5 92  
E20A: 10 08

405

406

407

408

409

410

E20C: A5 05  
E20E: 85 81

E210: A9 60  
E212: 85 85

411

412

413

414

415

416

417

418

419

E214: A5 81  
E216: C9 01  
E218: D0 12

E21A: A5 92  
E21C: 10 0E

E21E: A5 86  
E220: 29 04  
E222: D0 08

E224: A9 00  
E226: 85 92  
E228: A9 29  
E22A: 85 90

420

421

422

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432

433

434

435

LDA ADUR

BPL NOTTL

: J Y.

\* START 'STAGE X' SCREEN-->

\*-----

LDA #RESUM

STA MODE

LDA #\$60

STA FRAMEL

: 2 SEC.

NOTTL

\* KEEP PLAYING SONG DURING PLAY MODE-->

\*-----

LDA MODE

CMF #PLAY

BNE NOSONG

LDA ADUR

BPL NOSONG

LDA FRAMEH

AND #4

BNE NOSONG

LDA #0

STA ADUR

LDA #WDSONG2A-WDTBL

STA AIDX

NOSONG

Move



```

58          PJ1   ROC.BOTVI
59          #/ROC N'ROPE BOTVI LASTED:12.11.83
60          *****
61          *   MOVE DINDS--->   *
62          *****
63
E22C: A5 81      65          LDA   MODE
E22E: C9 01      66          CMP   #PLAY
E230: F0 03      67          BEQ   MOVE1
E232: 4C AF E2  68          JMP   MOV99
69
70          MOVE1
E235: 18          71          CLC
E236: 69 01      72          ADC   #1
E238: A5 85      73          LDA   FRAMEL
E23A: 29 03      74          AND   #$03
E23C: D0 71      75          BNE   MOV99
76
E23E: A2 04      77          LDX   #4
78          MOVEM
E240: B0 E4 E3  79          LDA   DPAUSE,X
E243: 25 85      80          AND   FRAMEL
E245: D0 0A      81          BNE   MV1
E247: B0 E9 E3  82          LDA   DPAUSEH,X
E24A: 25 86      83          AND   FRAMEH
E24C: D0 03      84          BNE   MV1
E24E: 4C 99 E2  85          JMP   NEXTMV      ;SKIP HIM.
86
87          MV1
E251: B5 A7      88          LDA   DINDIR,X      ;GET DIND DIR.
E253: 29 07      89          AND   #7          ;STUNNED BY LITE??
E255: D0 42      90          BNE   NEXTMV      ;C Y.
91
E257: B5 A7      92          LDA   DINDIR,X
E259: 29 08      93          AND   #$08
E25B: D0 25      94          BNE   DINLTR
95
96          ;MOV RTL->
E25D: B5 9D      97          LDA   DINPOS,X
E25F: C9 09      98          CMP   #9
E261: B0 09      99          BCS   MOVRT
100
101          ;AT EDGE--
E263: A5 85      102          LDA   FRAMEL
E265: 29 3F      103          AND   #$3F
E267: D0 30      104          BNE   NEXTMV      ;PAUSE AT EDGE.
E269: 4C 9E E2  105          JMP   CHGDIR
106
107          MOVRT
E26C: B5 9D      108          LDA   DINPOS,X
E26E: 18          109          CLC
E26F: 69 02      110          ADC   #2
E271: 20 1F EB  111          JSR   CLIFFHIT      ;AT EDGE?
E274: B0 05      112          BCS   MOVRTL      ;J N.
113
114          ;
E276: F6 9D      115          INC   DINPOS,X
E278: 4C 9E E2  116          JMP   CHGDIR
117
118          MOVRTL
E27B: D6 9D      119          DEC   DINPOS,X      ;MV LEFT.
E27D: CA          120          DEX
E27E: 10 C0      121          BPL   MOVEM
E280: 30 2D      122          BMI   MOV99
123
124          ;
125          DINLTR
E282: B5 9D      126          LDA   DINPOS,X
E284: C9 7A      127          CMP   #122
E286: B0 16      128          BCS   CHGDIR      ;J AT RIGHT EDGE.
129
130          ;
E288: B5 9D      131          LDA   DINPOS,X

```



E288:	89 04	265	ADD #4	;ADD DINO DIO-H.
E28D:	20 1F EP	266	JSR CLIFFHIT	;AT EDGE?
E290:	80 05	267	BCS MOVLTR	;J N.
		268		
E292:	06 9D	269	DEC DINFO5,X	
E294:	40 9E E2	270	JMP CHGDIR	
		271		
		272	MOVLTR	
E297:	F6 9D	273	INC DINFO5,X	;MV RIGHT.
		274	NEXTMV	
E299:	CA	275	DEX	
E29A:	10 A4	276	BPL MOVEM	
E29C:	30 11	277	BMI MOV99	
		278	*****	
		279	* CHANGE DIRECTION OF DINO--> *	
		280	*****	
		281	CHGDIR	
E29E:	85 A7	282	LDA DINDIR,X	
E2A0:	49 08	283	EOR #\$08	;FLIP DIR.
E2A2:	85 EF	284	STA TEMP1	
E2A4:	85 A7	285	LDA DINDIR,X	
E2A6:	29 F7	286	AND #\$F7	
E2A8:	05 EF	287	ORA TEMP1	
E2AA:	95 A7	288	STA DINDIR,X	
E2AC:	CA	289	DEX	
E2AD:	10 91	290	BPL MOVEM	
		291	MOV99	
		292		

```

294 *****
295 * ANIMATE DINGS---*
296 *****
E2AF: A5 B5 297 LDA FRAMEL
E2B1: 29 07 298 AND #$07
E2B3: D0 1C 299 BNE ANIM99
2100
E2B5: A2 04 2101 LDX #4
2102 ANIM1
2103 LDA DINDAT,X
E2B7: B5 A2 2104 AND #3 ;GET ANIM BITS.
E2B9: 29 03 2105 ENE ANIME
E2BB: D0 04 2106 ;
E2BD: A9 03 2107 LDA #3
E2BF: D0 03 2108 BNE ANIME
2109 ANIME
E2C1: 38 2110 SEC
E2C2: E9 01 2111 SBC #1
2112 ANIME3
E2C4: 85 EF 2113 STA TEMP1
E2C6: B5 A2 2114 LDA DINDAT,X
E2C8: 29 FC 2115 AND #$FF-3
E2CA: 05 EF 2116 ORA TEMP1
E2CC: 95 A2 2117 STA DINDAT,X
2118 ;
E2CE: CA 2119 DEX
E2CF: 10 E6 2120 BPL ANIM1
2121 ;
2122 ANIM99
2123 ENDIT
E2D1: AD 84 02 2124 LDA TIMER
E2D4: 30 FB 2125 BMI ENDIT
2126 ;

```

3

```

60 *****
61 * TOP VERTICAL INTERVAL *
62 *****
63 PUT ROC.TOPVI
>1 */ROC.TOPVI - LAST EDIT:12.29.83
>2 *****
>3 * VERTICAL RETRACE *
>4 *****
>5 VINT
E2D6: A9 A8 >6 LDA #TOPTIM
E2D8: 8D 96 02 >7 STA TIME64
>8 ;
E2DB: 85 02 >9 STA ATWAIT ;VINT WAIT #1.
E2DD: A9 02 >10 LDA #$02 ;RESET JOY BUTTONS.
E2DF: 85 02 >11 STA ATWAIT ;VINT WAIT #2.
E2E1: 85 01 >12 STA ATBLNK ;TURN GUN OFF.
E2E3: 85 02 >13 STA ATWAIT ;VINT WAIT #3.
E2E5: 85 02 >14 STA ATWAIT ;VINT WAIT #4.
E2E7: 85 02 >15 STA ATWAIT ;VINT WAIT #5.
E2E9: 85 00 >16 STA ATSYNC ;BRING GUN HOME.
E2EB: 85 02 >17 STA ATWAIT ;VINT WAIT #6.
>18 ;
>19 * INVINCIBLE TIMER MONITOR-
>20 *****
E2ED: A5 85 >21 LDA FRAMEL
E2EF: 29 0F >22 AND #$0F
E2F1: D0 06 >23 BNE PT99
E2F3: A5 B2 >24 LDA FWRTIM ←
E2F5: F0 02 >25 BEQ PT99 ;J NOT INVINCIBLE.
E2F7: C6 B2 >26 DEC FWRTIM
>27 PT99
E2F9: 85 02 >28 STA ATWAIT ;VINT WAIT #7.
E2FB: A9 00 >29 LDA #0
E2FD: 85 02 >30 STA ATWAIT ;VINT WAIT #8.
E2FF: 85 00 >31 STA ATSYNC

```

	>33	*****
	>34	* TOP VERT INTERVAL PROCESSING *
	>35	*****
	>36	*
E301: A9 00	>37	LDA #0
E303: 85 09	>38	STA ATSCOL
	>39	
E305: 20 7E E7	>40	JSR SOUND
	>41	



```

>43 *****
>44 * FLASH DINO MONITOR--
>45 *****
E308: A5 97 >46 LDA EXPSTAT ;LITE ON?
E30A: 30 46 >47 BMI NOTHIT ;C N.
>48 ;ANY DINO ON SAME LN?
E30C: A2 04 >49 LDY #4
E30E: A5 94 >50 LDA EXPLN 3
>51 WHOHIT
>52 CMP DINLN,X
>53 BEQ HAVWHO
>54 DEX
>55 BPL WHOHIT ;TRY NXT GUY.
>56 BMI NOTHIT ;J NONE ON SAME LN.
>57 HAVWHO
>58 LDA DINOST,X ;ALREADY STUNNED?
>59 AND #7
>60 BNE NOTHIT ;J Y.
>61 ;
E31F: A5 97 >62 LDA EXPSTAT
E321: 29 08 >63 AND #8 ;FACING RT?
E323: D0 1F >64 BNE FACEL ;C N.
>65 ;EXP IS FACING RT->
E325: A5 95 >66 LDA EXPPOS
E327: 18 >67 CLC
E328: 69 04 >68 ADC #4 ;ADD START OF LITE OFFSET.
E32A: D5 9D >69 CMP DINPOS,X
E32C: 80 24 >70 BCS NOTHIT ;J DINO IS TO LEFT OF LITE.
E32E: 18 >71 CLC
E32F: 69 08 >72 ADC #8 ;ADD LITE WIDTH.
E331: D5 9D >73 CMP DINPOS,X
E333: 90 1D >74 BCC NOTHIT ;J DINO NOTHIT
>75 HESHIT
>76 ;DINO'S HIT->
E335: B5 A7 >77 LDA DINOST,X
E337: 09 07 >78 ORA #7 ;STUN COUNTDOWN.
E339: 95 A7 >79 STA DINOST,X
E33B: A9 04 >80 LDA #4 ;STUNNED IMG.
E33D: 15 A2 >81 ORA DINDAT,X
E33F: 95 A2 >82 STA DINDAT,X
E341: 4C 52 E3 >83 JMP NOTHIT
>84 ;EXP FACING LEFT->
>85 FACEL
E344: A5 95 >86 LDA EXPPOS
E346: D5 9D >87 CMP DINPOS,X
E348: 90 08 >88 BCC NOTHIT
>89 ;DINO IS TO LEFT OF EXP->
E34A: E9 0E >90 SBC #14 ;SUB LITE WIDTH+DINO WIDTH.
E34C: 30 E7 >91 BMI HESHIT ;J WRAP.
E34E: D5 9D >92 CMP DINPOS,X
E350: 90 E3 >93 BCC HESHIT
>94 ;
>95 NOTHIT
>96 ;

```

E352: A5 85  
E354: 29 1F  
E356: D0 19  
E358: A2 04

E35A: B5 A7  
E35C: 29 07  
E35E: F0 0E

E360: D6 A7  
E362: B5 A7  
E364: 19 07  
E366: D0 06

E368: B5 A2  
E36A: 29 FB  
E36C: 95 A2

E36E: CA  
E36F: 10 E9

```
98 *****
99 * DINO STUNNED MONITOR--> *
100 *****
101 LDA FRAMEL
102 AND #$1F
103 BNE STUN99
104 LDX #4
105 STUND
106 LDA DINOST,X
107 AND #7
108 BEQ NOSTUN
109
110 DEC DINOST,X
111 LDA DINOST,X
112 AND #7
113 BNE NOSTUN
114
115 LDA DINDAT,X
116 AND #$FF-4
117 STA DINDAT,X
118 NOSTUN
119 DEX
120 BPL STUND
121 STUN99
122
```

;J NOT TIME TO CHK.

;STUNNED?

;J N.

;DEC STUN COUNT.

;SET IMG BACK TO NORMAL->

E371: A5 85  
E373: 29 03  
E375: D0 12

E377: A5 97  
E379: 30 0E  
E37B: 29 07  
E37D: D0 08  
E37F: A9 80  
E381: 05 97  
E383: 85 97  
E385: 30 02

E387: D6 97

```
>124 *****
>125 *  MANAGE FLASHLITE-:  *
>126 *****
>127 LDA FRAMEL
>128 AND #3
>129 BNE LOFF
>130
>131 LDA EXPSTAT
>132 BMI LOFF
>133 AND #7 ;GET TIME LEFT DN BITS.
>134 BNE DECTIM
>135 LDA #$80
>136 ORA EXPSTAT
>137 STA EXPSTAT ;LITE OFF.
>138 BMI LOFF
>139 DECTIM
>140 DEC EXPSTAT ;DEC TIMER.
>141 LOFF
```

```

>143 *****
>144 * MONITOR FALLING EXPLORER-> *
>145 *****
E385: A5 77 >146 LDA EXPSTAT
E38B: 29 10 >147 AND #10 ;FALLING
E38D: F0 26 >148 BEQ NFALL ;J N.
>149 ;
E38F: A5 94 >150 LDA EXPLN
E391: D0 16 >151 BNE FALLIN ;J NOT AT BOTTOM.
>152 ;HIT BOTTOM.
E393: A5 85 >153 LDA FRAMEL
E395: D0 1E >154 BNE NFALL ;SIT FOR AWHILE AT BOTTOM.
>155 *****
>156 * PUT EXP BACK IN START POS *
>157 *****
E397: A9 80 >158 LDA #80
E399: 85 97 >159 STA EXPSTAT
E39B: A9 0A >160 LDA #10
E39D: 85 95 >161 STA EXPPDS
E39F: A9 03 >162 LDA #3
E3A1: 95 96 >163 STA EXPDAT ;STAND UP IMG.
E3A3: A9 00 >164 LDA #0
E3A5: 85 B7 >165 STA ROPEST ;ROPE OFF..
E3A7: F0 00 >166 BEQ NFALL
>167 ;
>168 FALLIN
E3A9: C6 94 >169 DEC EXPLN
E3AB: D0 08 >170 BNE NFALL
>171 ;SITDOWN IMAGE-
E3AD: A9 04 >172 LDA #4
E3AF: 85 96 >173 STA EXPDAT
>174 ;
E3B1: A9 90 >175 LDA #90
E3B3: 85 85 >176 STA FRAMEL ;START 2 SEC SITDOWN DELAY.
>177 NFALL

```

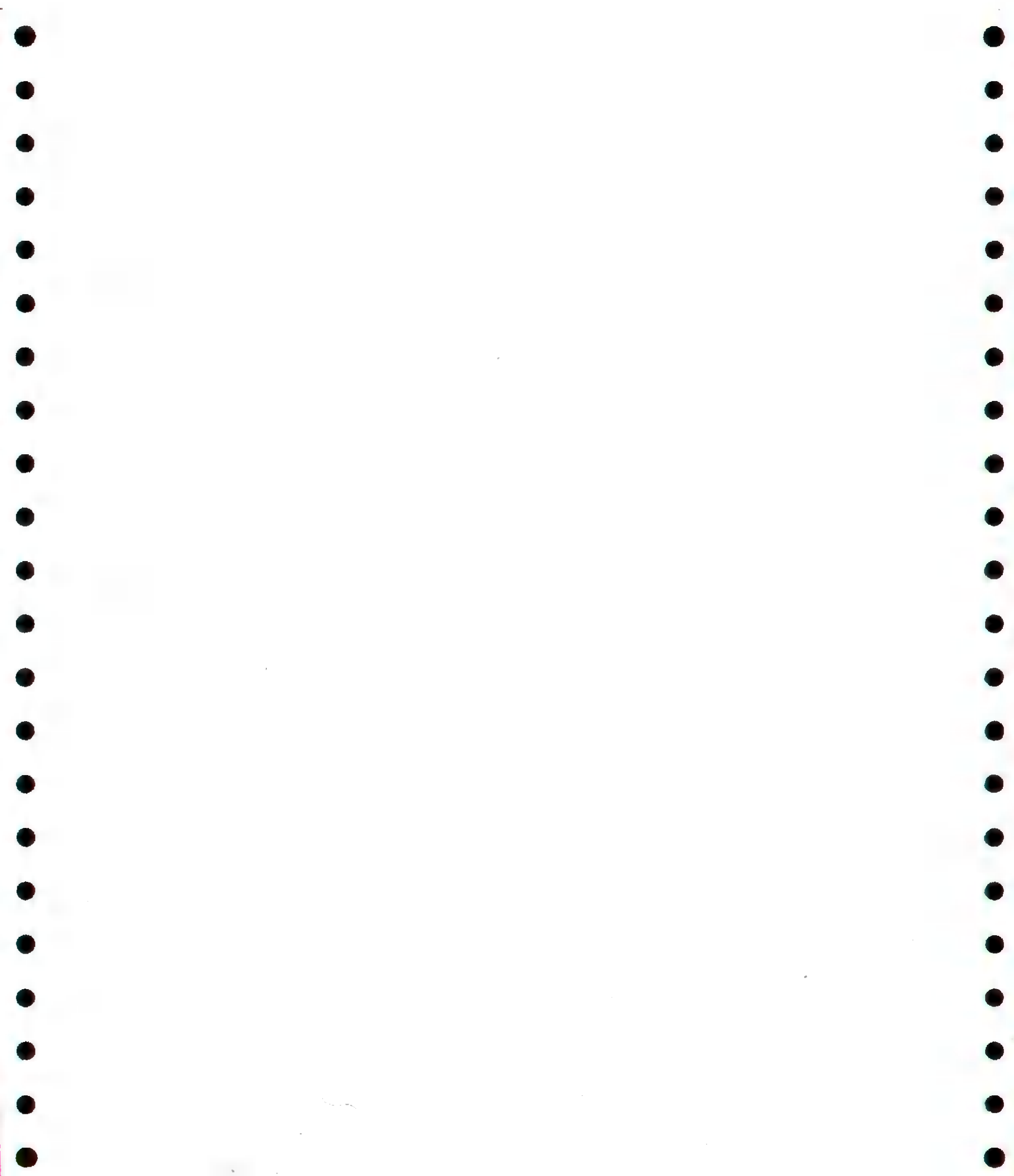


```

1179 *****
1180 * ANIMATE ELEVATOR *
1181 *****
E3B5: A6 82 1182 LDX ROUND1
E3B7: F0 25 1183 BEQ ELV99
E3B9: E0 02 1184 CPX #2
E3BB: F0 16 1185 BEQ ELV40 ;J WATERFALL.
1186 ;
E3BD: BD E1 E3 1187 LDA ELEVSFD, X
E3C0: 25 85 1188 AND FRAMEL
E3C2: D0 1A 1189 BNE ELV99
1190 ;DECIDE UP/DOWN MVMT.
E3C4: A5 86 1191 LDA FRAMEH
E3C6: 29 04 1192 AND #4
E3C8: F0 09 1193 BEQ ELV40 ;J TO MOVE ELEV DOWN.
1194 ;MV ELEV UP->
E3CA: A6 B4 1195 LDX ELEV DAT
E3CC: CA 1196 DEX
E3CD: 10 0D 1197 BFL ELV80
E3CF: A2 07 1198 LDX #7
E3D1: D0 09 1199 BNE ELV80
1200 ;
1201 ELV40
E3D3: A6 B4 1202 LDX ELEV DAT
E3D5: E8 1203 INX
E3D7: E0 08 1204 CPX #8
E3D8: D0 02 1205 BNE ELV80
E3DA: A2 00 1206 LDX #0
1207 ELV80
E3DC: B6 B4 1208 STX ELEV DAT
1209 ELV99
E3DE: 4C EE E3 1210 JMP ROPEMON
1211 ;
1212 ELEVSFD
E3E1: 00 0F 00 1213 DFB 0, $0F, 0
1214 DPAUSE
E3E4: C0 90 E0
E3E7: 80 80 1215 DFB $C0, $90, $E0, $80, $30
1216 DPAUSEH
E3E9: 02 01 04
E3EC: 02 01 1217 DFB $02, $01, $04, $02, $01
1218 ;

```

only 4 D/c



```

>221 *****
>222 *   R O P E   M O N I T O R   *
>223 *****
>224 ROPEMON
>225 LDA FRAME_
>226 AND #3
>227 BNE RM99
>228 ;
>229 LDA ROPEST
>230 AND #$C0 ;KF MODE.
>231 BEQ RM99 ;J OFF.
>232 ;
>233 CMP #$C0 ;ANCHORED?
>234 BEQ RM99 ;J Y.
>235 ;
>236 CMP #$40 ;SHOOTING?
>237 BEQ RM15 ;J Y.
>238 ;ELSE RETRACTING->
>239 *****
>240 *   R O P E   I S   R E T R A C T I N G   - -   *
>241 *****
>242 INC ROPELN
>243 LDA ROPELN
>244 AND #$0F ;GET IMG OFFSET.
>245 CMP #13 ;MINLEN?
>246 BNE RM99 ;J N.
>247 ;TURN ROPE OFF->
>248 LDA #0
>249 STA ROPEST
>250 BEQ RM99
>251 ;
>252 *****
>253 *   R O P E   I S   E X T E N D I N G   - - -   *
>254 *****
>255 RM15
>256 DEC ROPELN ;UP IMG PTR.
>257 LDA ROPELN
>258 AND #$0F ;MAXLEN?
>259 BNE RM99 ;J N.
>260 ;
>261 *****
>262 *   R O P E   I S   F U L L Y   E X T E N D E D   -   *
>263 *   D I D   I T   H I T   A   C L I F F   ?   ?   ?   *
>264 *****
>265 LDA ROPELN
>266 ;ROPE BAND= 35-87.
>267 ROR
>268 ROR
>269 ROR
>270 ROR
>271 ROR
>272 AND #7
>273 TAX ;X=ROPE BAND #.
>274 INX ;LOOK 1 BAND ABOVE.
>275 LDA ROPF03
>276 JSR CLIFFHIT
>277 BCS ATTACH ;J HIT CLIFF.
>278 ;ELSE TURN OFF ROPE->
>279 LDA #0
>280 STA ROPEST
>281 BEQ RM99
>282 ATTACH
>283 ;ANCHOR ROPE->
>284 LDA ROPEST
>285 ORA #$C0
E3EE: A5 B5
E3F0: 29 03
E3F2: D0 44
E3F4: A5 B7
E3F6: 29 C0
E3F8: F0 3E
E3FA: C9 D0
E3FC: F0 3A
E3FE: C9 40
E400: F0 10
E402: E6 B5
E404: A5 B5
E406: 29 0F
E408: C9 0D
E40A: D0 2C
E40C: A9 0D
E40E: B5 B7
E410: F0 26
E412: C6 B5
E414: A5 B5
E416: 29 0F
E418: D0 1E
E41A: A5 B5
E41C: 6A
E41D: 6A
E41E: 6A
E41F: 6A
E420: 6A
E421: 29 07
E423: AA
E424: E8
E425: A5 B6
E427: 20 1F EB
E42A: B0 06
E42C: A9 0D
E42E: B5 B7
E430: F0 06
E432: A5 B7
E434: 09 C0

```

E436: 85 R7

228

228: R429

STA ROSES

; PLANT IT.



```

>289 *****
>290 * PTERYDASTYL MONITOR-
>291 *****
E43B: A6 B8 >292 LDX BIRDP05
E43A: E0 78 >293 CPX #120
E43C: 90 0F >294 BCC BIRDON
>295 ;TIME TO FLY??
E43E: A5 85 >296 LDA FRAMEL
E440: D0 19 >297 BNE BRD99
E442: A5 86 >298 LDA FRAMEH
E444: 29 03 >299 AND #3
E446: D0 13 >300 BNE BRD99
>301 ;
E448: 85 B8 >302 STA BIRDP05 ;TURN ON BIRD.
E44A: 4C 5B E4 >303 JMP BRD99
>304 BIRDON
E44D: A5 85 >305 LDA FRAMEL
E44F: 29 C0 >306 AND #4C0
E451: F0 08 >307 BEQ BRD99 ;MAKE HIM PAUSE.
>308 ;
E453: A5 85 >309 LDA FRAMEL
E455: 29 01 >310 AND #1
E457: D0 02 >311 BNE BRD99
E459: E6 B8 >312 INC BIRDP05
>313 BRD99
>314 ;
>315 *****
>316 * MAINTAIN BONUS POINTS *
>317 *****
E45B: A5 85 >318 LDA FRAMEL
E45D: 29 0F >319 AND #0F
E45F: D0 1B >320 BNE NOADD
>321 ;COUNTDOWN-
E461: A5 8E >322 LDA BONUSL
E463: 05 8F >323 ORA BONUSH
E465: D0 06 >324 BNE CNTDWN
E467: A9 50 >325 LDA #50
E469: 85 8F >326 STA BONUSH ;WRAP TO 50.
E46B: D0 0F >327 BNE NOADD
>328 CNTDWN
E46D: F8 >329 SED
E46E: 38 >330 SEC
E46F: A5 8E >331 LDA BONUSL
E471: E9 0A >332 SBC #10
E473: 85 8E >333 STA BONUSL
E475: A5 8F >334 LDA BONUSH
E477: E9 00 >335 SBC #0
E479: 85 8F >336 STA BONUSH
E47B: D8 >337 CLD
>338 NOADD
>339 ;

```

```

35 *****
36 * SET UP DISPLAY RAM *
37 *****
38 FUT ROC.SETUP
39 */ ROC.SETUP LASTED 12.19.83
40 *****
41 * SET UP DISPLAY RAM -->
42 *****
43
44 *****
45
46 *****
47 * SET UP DINO/CAVEMAN RAM *
48 *****
49 LDX #4
50 SETR
51
52 LDA #<WHITETB
53 STA BCOLLO,X ;WHITE FOR ROPE.
54
55 LDA #<NULLX
56 STA BDATIO,X ;NULLS FOR ALL EXP IMGS.
57
58 LDA #<NULLM
59 STA FMLO,X ;NULLS FOR ALL MISSLE IMGS.
60
61 STA MALO,X
62 STA MBLO,X
63
64 ;SET UP DINO DATA PTRS->
65 < LDY DINDAT,X
66 LDA DINDTB,Y ;GET DINO DATA PTR LO.
67 STA ADATLO,X
68 LDA DINDTBHI,Y
69 STA ADATHI,X
70
71 LDY #$D6 ;DINO COLOR.
72 LDA DINDAT,X
73 AND #8 ;DINO OR CAVE?
74 BEQ HAVDINO
75 LDY #$F4 ;CAVEMAN COLOR.
76 STY ACOL,X ;DINO COLOR.
77 ;PACK DINO ORD+INCR-
78 LDA DINDIR,X
79 AND #$08 ;B3=ORD.
80 STA AORD,X
81
82 LDY DINFOB,X
83 LDA POSTBL-B,Y
84 AND #$F0 ;INCR ONLY.
85 ORA SAIN,X ;OR 10 ORD.
86 STA SAIN,X
87
88 DEX
89 BPL SETR
90

```

*use Nulls*

*DEFUALT RAM ->*

*#<CAVEZ*

*#>CAVEZ; NULL D/CING.*

*WHITE*

*HAVDINO*

E47C: A2 04

E47E: A9 00

E480: 95 D7

E482: A9 7A

E484: 95 D1

E486: A9 DC

E488: 95 DD

E48A: 95 E3

E48C: 95 E9

E48E: B4 A2

E490: B9 7F ED

E493: 95 CB

E495: B9 B3 ED

E498: 95 C6

E49A: A0 D6

E49C: B5 A2

E49E: 29 08

E4A0: F0 02

E4A2: A0 F4

E4A4: 94 C1

E4A6: B5 A7

E4A8: 29 08

E4AA: 95 BC

E4AC: B4 7D

E4AE: B9 CB EE

E4B1: 29 F0

E4B3: 15 BC

E4B5: 95 BC

E4B7: CA

E4B8: 10 C4

```

>51 *****
>52 * SET UP EGG/FALLING ROCK -> *
>53 *****
E4BA: A5 B5 >54 LDA FRAMEL
E4BC: 29 20 >55 AND #20
E4BE: D0 05 >56 BNE RSIDE
>57
E4C0: A5 B1 >58 LDA EGGF03
E4C2: 4C CB E4 >59 JMP LSIDE
>60 RSIDE
E4C5: A5 B1 >61 LDA EGGF05
E4C7: 6A >62 ROR
E4C8: 6A >63 ROR
E4C9: 6A >64 ROR
E4CA: 6A >65 ROR
>66 LSIDE
E4CB: A2 03 >67 LDX #3
E4CD: A0 D4 >68 LDY # EGG1
>69 EGGON
E4CF: 6A >70 ROR
E4D0: 90 02 >71 BCC NXTEGG
E4D2: 94 E3 >72 STY MAL0,X
>73 NXTEGG
E4D4: CA >74 DEX
E4D5: 10 F8 >75 BPL EGGON
>76 NOEGG
>77
>78 <FALLING ROCK FRAME->
>79 *****
>80 * SET UP ELEV/WATERFALL-> *
>81 *****
E4D7: A5 B2 >81 LDA ROUND1
E4D9: F0 1D >82 BEQ NOELEV ;NO ELEV/WATER RND 1.
E4DB: A6 B4 >83 LDX ELEV0AT
E4DD: C9 01 >84 CMP #1 ;ELEV RND?
E4DF: D0 0D >85 BNE WATER ;J N.
>86 ;LO PART OF ELEV->
E4E1: BD CC ED >87 LDA ELEVING,X
E4E4: B5 DE >88 STA FMLO+1
>89
E4E6: BD D2 ED >90 LDA ELEVING+0,X ;TOP PART.
E4E9: B5 DF >91 STA FMLO+2
E4EB: 4C F8 E4 >92 JMP NOELEV
>93 WATER
E4EE: BD DA ED >94 LDA WATERING,X
E4F1: B5 DE >95 STA FMLO+1
E4F3: BD DE ED >96 LDA WATERING+4,X
E4F6: B5 DD >97 STA FMLO
>98 NOELEV
>99
>100 *****
>101 * SET UP EXPLORER/FLASHLITE->
>102 *****
E4F8: A5 94 >103 LDA EXPLN
E4FA: A0 00 >104 LDY #0
>105 AGAIN
E4FC: 38 >106 SEC
E4FD: E9 1C >107 SBC #28
E4FF: 30 03 >108 BMI GOTIT
E501: C8 >109 INY
E502: 10 F8 >110 BPL AGAIN ;J ALWAYS
>111 GOTIT
E504: 18 >112 CLC
E505: 69 1C >113 ADC #28 ;ADD BACK LAST SUB.
E507: B5 EF >114 STA TEMP1 ;SV LN OFFSET.
>115 ;DECIDE EXP/LIGHT->

```

PAG

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E509: A5 97	>117	LDA EXPSTAT	
E50B: 30 0B	>118	BMI LITEOFF	
E50D: A5 95	>119	LDA FRAMEL	
E50F: 29 01	>120	AND #1	
E511: F0 05	>121	BEQ LITEOFF	
	>122		
E513: A9 9E	>123	LDA #KFLIGHT	:FLASHLITE IMG.
E515: 4C 1D E5	>124	JMP LITEON	
	>125	LITEOFF	
E518: A6 96	>126	LDX EXPDAT	
E51A: 8D C7 ED	>127	LDA EXPIMG, X	:EXPL.IMG.
	>128	LITEON	
E51D: 38	>129	SEC	
E51E: E5 EF	>130	SBC TEMP1	
E520: 99 D1 00	>131	STA BDATLO, Y	
	>132		:DO TOP BAND->
E523: 18	>133	CLC	
E524: 69 1C	>134	ADC #28	
E526: 85 F0	>135	STA TEMP2	
	>136		:IN 1 BAND?
E528: A5 EF	>137	LDA TEMP1	
E52A: C9 00	>138	CMF #0	
E52C: F0 05	>139	BEQ INBAND	:J ONLY NEED 1 BAND.
E52E: A5 F0	>140	LDA TEMP2	
E530: 99 D2 00	>141	STA BDATLO+1, Y	
	>142		:SET UP COLOR-?
	>143	INBAND	
E533: A6 97	>144	LDX EXPSTAT	
E535: 30 0B	>145	LMI LTOFF	
E537: A5 85	>146	LDA FRAMEL	
E539: 29 01	>147	AND #1	
E53B: F0 05	>148	BEQ LTOFF	
	>149		
E53D: A9 2D	>150	LDA #KYELOTB	:FLASHLITE COLOR.
E53F: 4C 5B E5	>151	JMP LITON	
	>152		
	>153	LTOFF	
E542: A5 97	>154	LDA EXPSTAT	
E544: 29 10	>155	AND #\$10	
E546: F0 11	>156	BEQ COLEXP	:J NOT FALLING.
	>157		
E548: A6 94	>158	LDX EXPLN	
E54A: D0 0D	>159	BNE COLEXP	:J NOT SITTING.
	>160		
E54C: A9 1F	>161	LDA #KEXPCOL+3	
E54E: 4C 5B E5	>162	JMP LITON	:SITTING COLOR TBL.
E551: A9 1C	>163	LDA #KEXPCOL	
E553: A6 B2	>164	LDX PWRTIM	
E555: F0 04	>165	BEQ LITON	:J NO PWR.
E557: A9 49	>166	LDA #KREDTBL	
	>167	COLEXP	
E559: A9 1C	>168	LDA #KEXFCOL	
	>169	LITON	
E55B: 38	>170	SEC	
E55C: E5 EF	>171	SBC TEMP1	
E55E: 99 D7 00	>172	STA BCOLLO, Y	
	>173		:DO TOP BAND->
E561: 18	>174	CLC	
E562: 69 1C	>175	ADC #28	
E564: 85 F0	>176	STA TEMP2	
E566: A5 EF	>177	LDA TEMP1	:NEED ONLY 1 BAND?
E568: C9 00	>178	CMF #0	
E56A: F0 05	>179	BEQ EXP99	:J Y.
E56C: A5 F0	>180	LDA TEMP2	
E56E: 99 D8 00	>181	STA BCOLLO+1, Y	
	>182		



FIG. 1  
>183 EXP-99

E571: A5 B7  
E573: 29 C0  
E575: F0 2E  
  
E577: A5 B5  
E579: 29 E0  
E57B: 4A  
E57C: 4A  
E57D: 4A  
E57E: 4A  
E57F: 4A  
E580: A8

E581: A5 B7  
E583: 29 C0  
E585: C9 C0  
E587: D0 C5  
E589: A9 65  
E58B: 4C 96 E5

E58E: A5 B5  
E590: 29 OF  
E592: 0A  
E593: 18  
E594: 69 6D

E596: 85 EF

E598: A5 B7  
E59A: 29 08  
E59C: D0 02  
E59E: E6 EF

E5A0: A5 EF  
E5A2: 99 E9 00

E5A5: A9 F6  
E5A7: 85 EE  
E5A9: 85 E8  
E5AB: 85 E2  
E5AD: 85 DC

E5AF: A9 F7  
E5B1: 85 D0

E5B3: A0 00  
E5B5: A5 97  
E5B7: 30 10  
E5B9: A5 85  
E5BB: 29 01  
E5BD: F0 0A  
E5BF: A0 06  
E5C1: A5 97  
E5C3: 29 08  
E5C5: F0 05

\*\*\*\*\*  
\* SET UP ROPE---\*  
\*\*\*\*\*

>188 LDA ROPEST  
>189 AND #C0 ;KF STATUS.  
>190 BEQ RLN99 ;J OFF.  
>191 ;  
>192 LDA ROPELN  
>193 AND #E0 ;GET BAND.  
>194 LSR  
>195 LSR  
>196 LSR  
>197 LSR  
>198 LSR  
>199 TAY ;Y=BAND.  
>200 ;

>201 LDA ROPEST  
>202 AND #C0  
>203 CMP #C0 ;ANCHORED?  
>204 BNE RLN80 ;J N.  
>205 LDA #<ROPE2 ;ANCHORED ROPE IMG.  
>206 JMP RLN90  
>207 ;

>208 RLN80  
>209 LDA ROPELN  
>210 AND #OF ;LN OFFSET.  
>211 ASL ;LN X 2.  
>212 CLC  
>213 ADC #<ROPE1 ;SHOOTING ROPE IMG.  
>214 RLN90

>215 STA TEMP1  
>216 ;SET UP ROPE DIR-->  
>217 LDA ROPEST  
>218 AND #08  
>219 BNE LTOR  
>220 INC TEMP1

>221 LTOR  
>222 LDA TEMP1  
>223 STA MBLO,Y  
>224 RLN99  
>225 ;

\*\*\*\*\*  
\* SET UP HI PTRS---\*  
\*\*\*\*\*

>229 LDA #MISC  
>230 STA ME+1  
>231 STA MA+1  
>232 STA FM+1  
>233 STA BCOL+1  
>234 ;  
>235 LDA #>DING!  
>236 STA ADAT+1  
>237 ;

\*\*\*\*\*  
\* PASS EXP/LITE POS TO BANK2 \*  
\*\*\*\*\*

>241 LDY #0  
>242 LDA EXPSTAT  
>243 BMI EXPON ;J LITE OFF.  
>244 LDA FRANEL  
>245 AND #1  
>246 BEQ EXPON  
>247 LDY #6  
>248 LDA EXPSTAT  
>249 AND #08  
>250

PAG

CAVEZ  
Maybe Not!

E5C5: F0 02	>250	BEC	EXPON	
E5C7: A0 F3	>251	LDY	#5FE	
	>252	EXPON		
E5C9: 84 EF	>253	STY	TEMP1	
E5CB: A5 95	>254	LDA	EXPPOS	
E5CD: 18	>255	CLC		
E5CE: 65 EF	>256	ADC	TEMP1	
E5D0: A8	>257	TAY		
E5D1: B9 D0 EE	>258	LDA	POSTBL,Y	
E5D4: 85 D6	>259	STA	BDAT+1	:PASS POS TO BANK2.
	>260			
	>261			
	>262	*	POS FM (ELEV/WATERFALL)	*
	>263			
E5D6: A2 43	>264	LDX	#67	
E5D8: BD D0 EE	>265	LDA	POSTBL,X	
E5DB: A2 04	>266	LDX	#4	
E5DD: 20 57 ED	>267	JSR	POS	:POS W/O MVIN.
	>268			
	>269	*	POS MB (ROPE)	*
	>270			
E5E0: A2 03	>271	LDX	#3	
E5E2: A4 B6	>272	LDY	ROPPOS	
E5E4: B9 D0 EE	>273	LDA	POSTBL,Y	
E5E7: 20 57 ED	>274	JSR	POS	:POS W/O MVIN.
	>275			
	>276	*	POS MA (FWR EGGS/BOULDER) -->>	*
	>277			
E5EA: A5 85	>278	LDA	FRAMEL	
E5EC: 29 01	>279	AND	#1	
E5EE: D0 00	>280	BNE	PROCK	:DO ROCK.
	>281	PROCK		
E5F0: A5 85	>282	LDA	FRAMEL	
E5F2: 6A	>283	ROR		
E5F3: 6A	>284	ROR		
E5F4: 6A	>285	ROR		
E5F5: 6A	>286	ROR		
E5F6: 6A	>287	ROR		
E5F7: 29 01	>288	AND	#1	
E5F9: AA	>289	TAX		
E5FA: BD 0D E6	>290	LDA	EPOS,X	
E5FD: A2 02	>291	LDX	#2	:MA
E5FF: 20 57 ED	>292	JSR	POS	:POS W/O MVIN.
	>293			
	>294	*	DO ALL FINE POSITIONING-->	*
	>295			
E602: 85 02	>296	STA	ATWAIT	
E604: 85 2A	>297	STA	ATMVIN	
E606: 85 02	>298	STA	ATWAIT	
E608: 85 2B	>299	STA	ATREMV	
E60A: 4C 0F E6	>300	JMP	PEG99	
	>301	EPOS		
E60D: 32 78	>302	DFB	50,120	
	>303	PEG99		

PAG

WASTED TIME

E60F: AD B4 02  
E612: 30 FB

E614: A9 40  
E616: 85 02  
E618: 85 01

E61A: A9 00  
E61C: 85 09

E61E: A9 00  
E620: 85 0B  
E622: 85 0C

E624: A5 81  
E626: C9 01  
E628: F0 07

E62A: C9 05  
E62C: F0 06

E62E: 4C 3D E6

E631: 4C B3 E6

E634: A9 8D  
E636: A2 99  
E638: A0 7B  
E63A: 4C 43 E6

E63D: A9 8D  
E63F: A2 81  
E641: A0 75

E643: 85 E8  
E645: 86 E9  
E647: 84 EA

E649: A9 1A  
E64B: 85 06  
E64D: 85 07

E64F: A5 E8  
E651: A2 EE  
E653: 20 90 E9

```
70 *****
71 * PAINT SCORE/TITLE
72 *****
73 PUT ROC.TITLE
>1 */ROC.TITLE - LASTED: 12.22.83
>2 *****
>3 SCREEN
>4 LDA TIMER
>5 BMI SCREEN
>6 ;
>7 LDA #$40
>8 STA ATWAIT
>9 STA ATBLNK ;GUN ON.
>10 ;
>11 LDA #BLACK
>12 STA ATSCOL
>13 ;
>14 LDA #0
>15 STA ATABRD
>16 STA ATBORD
>17 ;
>18 * DECIDE WHICH SCREEN TO SHOW--
>19 *-----
>20 LDA MODE
>21 CMP #PLAY
>22 BEQ CLIFF
>23 ;
>24 CMP #RESUM
>25 BEQ STGSCR
>26 ;
>27 JMP TITSCR ;ELSE DO TITLE SCREEN.
>28 CLIFF
>29 JMP PSCORE
>30 ;
>31 ;
>32 * SHOW "R N R STAGE X"--
>33 *-----
>34 STGSCR
>35 LDA #RNROPE
>36 LDX #KSTAGE
>37 LDY #NULLTB
>38 JMP SETUP
>39 ;
>40 * SHOW TITLE SCREEN (OPR.)
>41 *-----
>42 TITSCR
>43 LDA #RNROPE ;COLECO
>44 LDX #KONAMI ;PRESNT
>45 LDY #KOLEB3 ;RNROPE
>46 ;
>47 SETUP
>48 STA TEMP11
>49 STX TEMP12
>50 STY TEMP13
>51 ;
>52 ;
>53 * SET UP FOR TOP WORD-->
>54 *****
>55 LDA #YELLOW
>56 STA ATACOL
>57 STA ATBCOL
>58 ;
>59 LDA TEMP11
>60 LDX #DATA2
>61 JSR BFR16
```

70 main (CLIFF screen)  
PAG

```

E656: A2 28
E658: 85 02
E65A: CA
E65B: 10 FB
E65D: 20 00 ED
E660: A9 68
E662: 85 06
E664: 85 07
E666: A5 E9
E668: A2 EE
E66A: 20 90 E9
E66D: A2 23
E66F: 85 02
E671: CA
E672: 10 FB
E674: 20 00 ED
E677: A9 0E
E679: 85 06
E67B: 85 07
E67D: A5 EA
E67F: A2 EE
E681: 20 90 E9
E684: A5 81
E686: C9 05
E688: D0 0B
E68A: A4 82
E68C: B9 6C ED
E68F: 85 F8
E691: A9 EF
E693: 85 F9
E695: A2 0F
E697: 85 02
E699: CA
E69A: 10 FB
E69C: 20 00 ED
E69F: A2 46
E6A1: 85 02
E6A3: CA
E6A4: 10 FB
E6A6: A9 00
E6A8: 85 25
E6AA: 85 26

```

```

TOP1
MID1
NONUM
BOT1
HOLD10

```

```

LIX #40
STA ATWAIT
DEX
BPL TOP1
JSR SCORE
LDA #PURPLE
STA ATACOL
STA ATBCOL
LDA TEMP12
LDX #DATA2
JSR SPRIT6
LDX #35
STA ATWAIT
DEX
BPL MID1
JSR SCORE
LDA #0E
STA ATACOL
STA ATBCOL
LDA TEMP13
LDX #DATA2
JSR SPRIT6
LDA MODE
CMP #RESUM
BNE NONUM
LDY ROUND1
LDA SCORTE+1,Y
STA PD100
LDA #DIGITS
STA PD100+1
LDX #15
STA ATWAIT
DEX
BPL BOT1
JSR SCORE
LDX #70
STA ATWAIT
DEX
BPL HOLD10
LDA #0
STA ATASEL
STA ATBSEL

```

```

* SET UP FOR MIDDLE WORD-->
*****
* SET UP FOR BOTTOM WORD-->
*****

```

PAG

;"STAGE #"-->



ESRE: 83 04 1128  
ESRE: 85 05 1129  
ESRE: 87 06 1130  
ESRE: 4C 24 30 1131

STA ATAT  
STA ATBOTL

JMP BOTVI

END SW BANKS.

E6B3: A9 00  
E6B5: 95 09

E6B7: A9 6B  
E6B9: A2 EF  
E6BB: 20 90 E9  
E6BE: A9 0E  
E6C0: 85 06  
E6C2: 95 07  
E6C4: 20 00 ED

E6C7: A5 8E  
E6C9: C9 78  
E6CB: B0 45

E6CD: A4 88  
E6CF: B9 D0 EE  
E6D2: A2 00  
E6D4: 20 57 ED  
E6D7: 85 02  
E6D9: 85 2A  
E6DB: A9 00  
E6DD: 85 04  
E6DF: 85 25  
E6E1: A9 08  
E6E3: 85 08

E6E5: A0 11

E6E7: 85 02  
E6E9: 85 2B

E6EB: A5 85  
E6ED: 29 10  
E6EF: F0 0D

E6F1: B9 00 EC  
E6F4: 85 1B  
E6F6: B9 2D EC  
E6F9: 85 06  
E6FB: 4C 08 E7

E6FE: B9 16 EC  
E701: 85 1B  
E703: B9 2C EC  
E706: 85 06

E708: 88  
E709: 10 DC

E70B: A9 00  
E70D: 85 0B  
E70F: 4C 57 E7

```

>173 *****
>174 *   M A I N   S C R E E N   *
>175 *****
>176 PSCORE
>177 LDA #BLACK
>178 STA ATSCOL
>179 ;
>180 *****
>181 *   PAINT & DIGIT SCORE
>182 *****
>183 LDA #<DGTEL
>184 LDX #>DATA1
>185 JSR SPRIT6
>186 LDA #$0E
>187 STA ATACOL
>188 STA ATBCOL
>189 JSR SCORE ;PAINT NUMBERS
>190 ;
>191 *****
>192 * PAINT BONUS OR PTERYDACTYL->
>193 *****
>194 LDA BIRDFOS
>195 CMP #120
>196 BCS FNTBCN ;GO DO BONUS.
>197 ;DO BIRD-?
>198 LDY BIRDFOS
>199 LDA POSTBL,Y
>200 LDX #0
>201 JSR POS ;POS BIRD.
>202 STA ATWAIT
>203 STA ATMVIN
>204 LDA #0
>205 STA ATACTL
>206 STA ATASEL
>207 LDA #8
>208 STA ATAORD
>209 ;
>210 LDY #17
>211 BOLD
>212 STA ATWAIT
>213 STA ATREMV
>214 ;
>215 LDA FRAMEL
>216 AND #10
>217 BEQ BOLD2
>218 ;
>219 LDA BIRD1,Y
>220 STA ATADAT
>221 LDA BRDCOL,Y
>222 STA ATACOL
>223 JMP BOLD4
>224 ;
>225 BOLD2
>226 LDA BIRD2,Y
>227 STA ATADAT
>228 LDA BRDCOL-1,Y
>229 STA ATACOL
>230 BOLD4
>231 DEY
>232 BPL BOLD
>233 ;
>234 LDA #0
>235 STA ATAORD
>236 JMP SETADR
>237 ;

```

(CLIFFS)

ATBSEL?

PAG

```

1955
*****
* PAINT "BONUS" -->
*****
>200
PNTBON
E712: A9 93 >202 LDA #BONUS :PAINT "BONUS"
E714: A2 EF >203 LDX #>DIGITS
E716: 20 90 E9 >204 JSR SPRITE
>205
E719: A9 5A >206 LDA #$5A
E71B: 85 06 >207 STA ATACOL
E71D: 85 07 >208 STA ATBCOL
>209
>210
E71F: 20 22 ED >211 JSR SCORNP :PAINT "BONUS"
>212
>213
*****
>214 * PAINT BONUS POINTS-->
>215 *****
E722: A5 8E >216 LDA BONUSL
E724: 29 0F >217 AND #$0F
E726: A8 >218 TAY
E727: B9 6B ED >219 LDA SCORTE,Y
E72A: 85 FA >220 STA PD10
E72C: A5 8E >221 LDA BONUSL
E72E: 4A >222 LSR
E72F: 4A >223 LSR
E730: 4A >224 LSR
E731: 4A >225 LSR
E732: A8 >226 TAY
E733: B9 6B ED >227 LDA SCORTB,Y
E736: 85 F8 >228 STA PD100
E738: A5 8F >229 LDA BONUSH
E73A: 29 0F >230 AND #$0F
E73C: A8 >231 TAY
E73D: B9 6B ED >232 LDA SCORTE,Y
E740: 85 F6 >233 STA PD11
E742: A5 8F >234 LDA BONUSH
E744: 4A >235 LSR
E745: 4A >236 LSR
E746: 4A >237 LSR
E747: 4A >238 LSR
E748: A8 >239 TAY
E749: B9 6B ED >240 LDA SCORTB,Y
E74C: 85 F4 >241 STA PD10K
>242
E74E: A9 2A >243 LDA #$2A
E750: 85 06 >244 STA ATACOL
E752: 85 07 >245 STA ATBCOL
E754: 20 22 ED >246 JSR SCORNP
>247
>248
>249
*****
>250 * SET UP POS RTN ADDR FOR DINOS*
>251 *****
>252 SETADR
E757: A2 04 >253 LDX #4
E759: A0 00 >254 LDY #0
E75B: 84 EF >255 STY TEMP1
>256 SETS
E75D: B4 9D >257 LDY DINPOS,X
E75F: B9 08 EE >258 LDA POSTBL-B,Y
E762: 29 07 >259 AND #$07
E764: A8 >260 TAY
E765: B9 E2 ED >261 LDA POSRTN,Y
E768: A4 EF >262 LDY TEMP1
E76A: 99 F6 00 >263 STA SAPOS4,Y :SET LID.
>264

```

PAG

: ALL ON SAME PG. FOR NOW.

\*\*\*\*\*  
 \* SET UP POS RTN ADDR FOR DINOS\*  
 \*\*\*\*\*  
 SETADR

LDX #4  
 LDY #0  
 STY TEMP1  
 SETS  
 LDY DINPOS,X  
 LDA POSTBL-B,Y  
 AND #\$07  
 TAY  
 LDA POSRTN,Y  
 LDY TEMP1  
 STA SAPOS4,Y :SET LID.

POSREN

LLAT1-1  
 LLAT2-1

LLAT7-1

E78D: 86 EF 2264  
E76F: A9 EF 2265  
E771: A4 EF 2266  
E773: 99 F6 00 2267  
E776: E6 EF 2268  
E778: CA 2269  
E779: 10 E2 2270  
2271  
2272  
E77B: 4C 00 E0 2273

INC TEMP1  
LDA #LAT1  
LDY TEMP1  
STA SAF094,Y ;SET HI  
INC TEMP1  
DEX  
BPL SET5  
;  
JMP TOPGW ;SW BANKS.

more  
x0  
Bank 2

```

73 *****
75 * SOUND TABLES *
77 *****
78 PUT ROC.SONGS
79
80 /* ROC.SONGS LASTED: 12/21/83
81 *****
82
83
84 *****
85 * MAINTAIN SOUNDS OR MUSIC--> *
86 * *
87 * REQUIRES 2 BYTES FOR EACH *
88 * NOTE IN SOUND + 4 BYTES OF *
89 * RAM. *
90 *****
91 SOUND
92
93 E77E: A2 01 >12 LDX #1 ;DO BOTH CHANNELS.
94
95 E780: B5 92 >13 SND1
96 E782: 30 35 >14 LDA ADUR,X
97 E784: D0 31 >15 BNE SND85 ;J SND NOT ON.
98 >16 BNE SND80 ;J SND NOT DONE YET.
99 >17
100 E786: B4 90 >18 LDY AIDX,X
101 E788: B9 BD E7 >19 LDA FVTBL,Y ;GET FREQ/VOL PARAMS.
102 E78B: C9 FF >20 CMP #$FF
103 E78D: D0 08 >21 BNE SND25 ;J NOT END OF SND.
104 >22 ;ENDIT--
105
106 E78F: 95 92 >23 STA ADUR,X
107 E791: A9 00 >24 LDA #0
108 E793: 95 19 >25 STA ATAVOL,X ;TURN OFF VOL.
109 E795: F0 22 >26 BEQ SND85
110 >27
111 E797: 95 17 >28 STA ATADIV,X ;NEW FREQ.
112 E799: 4A >29 LSR
113 E79A: 4A >30 LSR
114 E79B: 4A >31 LSR
115 E79C: 4A >32 LSR
116 E79D: 4A >33 LSR
117 E79E: A8 >34 TAY
118 E79F: B9 35 E8 >35 LDA VOLTBL,Y
119 E7A2: 95 19 >36 STA ATAVOL,X ;NEW VOL.
120 E7A4: B4 90 >37 LDY AIDX,X
121 E7A6: B9 4B E8 >38 LDA WDTBL,Y ;GET WAVE/DUR PARAMS.
122 E7A9: 95 15 >39 STA ATAWAV,X ;NEW WAVE.
123 E7AB: 4A >40 LSR
124 E7AC: 4A >41 LSR
125 E7AD: 4A >42 LSR
126 E7AE: 4A >43 LSR
127 E7AF: A9 >44 TAY
128 E7B0: B9 3D E8 >45 LDA DURTBL,Y
129 E7B3: 95 92 >46 STA ADUR,X ;NEW DUR.
130 E7B5: F6 90 >47 INC AIDX,X ;UP NOTE PTR.
131 >48
132 E7B7: D6 92 >49 SND80 DEC ADUR,X
133 >50
134 E7B9: CA >51 SND85 DEX
135 E7BA: 10 C4 >52 BPL SND1 ;DO BOTH CHANNELS.
136 >53
137 >54 SND99
138 >55
139 E7BC: 60 >56 RTS
140 >57

```



```

>58 *****
>59 * FVTBL - FREQ/VBL PARAMS *
>60 *      30-34 = FREQ DIV *
>61 *      35-37 = IDX TO VOLTBL*
>62 *****
>63
>64 FVTBL
>65 SONG1A
>66
                                ;TITLE SONG.
E7BD: 17 13 1A
E7C0: 17 13 >67 DFB $17,$13,$1A,$17,$13
E7C2: 1A 17 13
E7C5: 1A 17 >68 DFB $1A,$17,$13,$1A,$17
E7C7: 13 1A 17
E7CA: 13 1A >69 DFB $13,$1A,$17,$13,$1A
E7CC: 17 13 1A
E7CF: 17 13 >70 DFB $17,$13,$1A,$17,$13
E7D1: 1A 17 13
E7D4: 1A 17 >71 DFB $1A,$17,$13,$1A,$17
E7D6: 13 1A 17
E7D9: 13 F3 >72 DFB $13,$1A,$17,$13,$F3
E7DB: 13 17 1A >73 DFB $13,$17,$1A
E7DE: FF >74 DFB $FF ;END OF SONG.
>75 SONG1B
E7DF: 0E EE 0E
E7E2: 0F 11 >76 DFB $0E,$EE,$0E,$0F,$11
E7E4: 14 >77 DFB $14
E7E5: FF >78 DFB $FF
>79 SONG2A
>80 ;SCREEN 1 SONG->
E7E6: 15 F5 11
E7E9: F1 >81 DFB $15,$F5,$11,$F1
E7EA: 0E EE 0C
E7ED: EC >82 DFB $0E,$EE,$0C,$EC
E7EE: 0E EE 0E
E7F1: EE >83 DFB $0E,$EE,$0E,$EE
E7F2: 0C EC 0E
E7F5: EE >84 DFB $0C,$EC,$0E,$EE
E7F6: 11 F1 10
E7F9: F0 >85 DFB $11,$F1,$10,$F0
E7FA: 0C EC 0A
E7FD: EA >86 DFB $0C,$EC,$0A,$EA
E7FE: 1D FD 0A
E801: EA >87 DFB $1D,$FD,$0A,$EA
E802: 0A EA 1D
E805: FD >88 DFB $0A,$EA,$1D,$FD
E806: 0A EA 0C
E809: EC >89 DFB $0A,$EA,$0C,$EC
E80A: FF >90 DFB $FF ;END OF SONG.
>91 FVBULL
>92 ;BULLET
E80B: E9 A5 64 >93 DFB $E9,$A5,$64
E80E: FF >94 DFB $FF ;END
>95 FVCANN
E80F: F1 BE 7A
E812: 2D >96 DFB $F1,$BE,$7A,$2D
E813: 28 >97 DFB $28
E814: FF >98 DFB $FF
>99 FVEXP1
E815: F8 B4 74
E818: 51 >100 DFB $F8,$B4,$74,$51
E819: 2E 2F >101 DFB $2E,$2F
E81E: FF >102 DFB $FF ;END
>103 FVMGUN
E81C: E1 FB E1

```

E814: FB	>104	DFB	\$E1, \$FE, \$E1, \$FB
E820: E1 E1 FB			
E823: E3	>105	DFB	\$E1, \$E1, \$FB, \$EZ
E824: FB E6	>106	DFB	\$FB, \$E6
E826: FF	>107	DFB	\$FF
	>108		FVRUN
E827: B0 00 E9			
E82A: 00	>109	DFB	\$B0, \$00, \$E9, \$00
E82B: E5 00 E9			
E82E: 00	>110	DFB	\$E5, \$00, \$E9, \$00
E82F: AC	>111	DFB	\$AC
E830: FF	>112	DFB	\$FF
	>113		FVTANK
E831: 9B BB FB	>114	DFB	\$9B, \$BB, \$FB
E834: FF	>115	DFB	\$FF
	>116		:

```

>118 *****
>119 * VOLTEL *
>120 *****
>121 VOLTEL

E835: 0C 02 04
E838: 06 >122 DFB 12,2,4,6
E839: 08 0A 0B
E83C: 00 >123 DFB 8,10,11,0
>124 ;
>125 *****
>126 * DURTEL *
>127 *****
>128 DURTEL
>129 ;

E83D: 0C 46 02
E840: 03 04 05
E843: 06 07 >130 DFB 12,70,2,3,4,5,6,7
E845: 08 09 0A
E848: 0B 4E 54 >131 DFB 8,9,10,11,78,84
>132 ;
>133 *****
>134 * WDTBL-WAVE/DURATION PARAMS *
>135 * B0-B3 = WAVEFORM *
>136 * B4-B7 = DURTEL IDX *
>137 *****
>138 WDTBL
>139 WDSONG1A
>140 ;TITLE SONG->

E84B: 64 64 64
E84E: 64 64 >141 DFB $64,$64,$64,$64,$64
E850: 64 64 64
E853: 64 64 >142 DFB $64,$64,$64,$64,$64
E855: 64 64 64
E858: 64 64 >143 DFB $64,$64,$64,$64,$64
E85A: 64 64 64
E85D: 64 64 >144 DFB $64,$64,$64,$64,$64
E85F: 64 64 64
E862: 64 64 >145 DFB $64,$64,$64,$64,$64
E864: 64 64 64
E867: 44 24 >146 DFB $64,$64,$64,$44,$24
E869: 64 64 C4 >147 DFB $64,$64,$C4
E86C: FF >148 DFB $FF ;END OF SONG.
>149 WDSONG1B

E86D: 1C 2C 0C
E870: DC 0C >150 DFB $1C,$2C,$0C,$0C,$0C
E872: DC >151 DFB $DC
E873: FF >152 DFB $FF
>153 ;
>154 WDSONG2A
>155 ;SCREEN 1 SONG->

E874: 6C 5C 6C
E877: 5C >156 DFB $6C,$5C,$6C,$5C
E878: 6C 5C 6C
E87B: 5C >157 DFB $6C,$5C,$6C,$5C
E87C: 3C 3C 3C
E87F: 2C >158 DFB $3C,$3C,$3C,$2C
E880: 6C 5C 6C
E883: 5C >159 DFB $6C,$5C,$6C,$5C
E884: 6C 5C 6C
E887: 5C >160 DFB $6C,$5C,$6C,$5C
E888: 6C 5C 6C
E88B: 5C >161 DFB $6C,$5C,$6C,$5C
E88C: 64 54 3C
E88F: 3C >162 DFB $64,$54,$3C,$3C
E890: 3C 2C 64

```

E893:	54		>163	DFB	\$50, \$50, \$54, \$54
E894:	60	50			
E897:	50		>164	DFB	\$60, \$50, \$60, \$50
E898:	FF		>165	DFB	\$FF ;END OF SONG.
			>166	WDBULL	
			>167		;BULLET
E899:	48	48	>168	DFB	\$48, \$48, \$48
E89C:	FF		>169	DFB	\$FF ;END SND.
			>170	WDCANN	
			>171		;CANNON
E89D:	88	88	88		
E8A0:	88		>172	DFB	\$88, \$88, \$88, \$88
E8A1:	88		>173	DFB	\$88
E8A2:	FF		>174	DFB	\$FF ;END.
			>175		;
			>176	WDEXF1	
			>177		;EXPLOSION 1.
E8A3:	D8	D8	D8		
E8A6:	D8		>178	DFB	\$D8, \$D8, \$D8, \$D8
E8A7:	D8	D8	>179	DFB	\$D8, \$D8
E8A9:	FF		>180	DFB	\$FF
			>181	WDMGUN	
			>182		;MACHINE GUN.
E8AA:	28	28	28		
E8AD:	28		>183	DFB	\$28, \$28, \$28, \$28
E8AE:	28	28	28		
E8B1:	28		>184	DFB	\$28, \$28, \$28, \$28
E8B2:	28	28	>185	DFB	\$28, \$28
E8B4:	FF		>186	DFB	\$FF ;END.
			>187	WDRUN	
			>188		;SOLDIER RUNNING
E8B5:	62	62	62		
E8B8:	62		>189	DFB	\$62, \$62, \$62, \$62
E8B9:	62	62	62		
E8BC:	62		>190	DFB	\$62, \$62, \$62, \$62
E8BD:	62		>191	DFB	\$62
E8BE:	FF		>192	DFB	\$FF ;END
			>193		;
			>194	WDTANK	
			>195		;TANK RUMBLE.
E8BF:	FF	FF	FF	DFB	\$FF, \$FF, \$FF
E8C2:	FF		>197	DFB	\$FF

```

>195 *****
>200 * START SOUNDS ROUTINES *
>201 * IN: *
>202 * Y = SNI: IDX TO FVTBL+WDTBL *
>203 * X = IDX TO DESIRED CHANNEL *
>204 * *
>205 *OUT: *
>206 * SOUND/MUSIC INITIALIZED. *
>207 * ACC. DESTROYED. *
>208 *****
>209 LOSND
>210 ;LO PRIORITY ENTRY->
E8C3: B5 92 >211 LDA ADUR,X
E8C3: 10 06 >212 BFL SON99 ;J SOME OTHER SND ON.
>213 HISND
>214 ;HI PRIORITY ENTRY->
E8C7: 94 90 >215 STY AIDX,X ;START SOUND->
>216
E8C9: A9 00 >217 LEA #0
E8CB: 95 92 >218 STA ADUR,X
>219 SON99
E8CD: 60 >220 RTS
>221 ;

```



```

      PUT  ROC SUBS1
      * / ROC.SUBS1  LAS 12/29/83
      *****
      *   S U B R O U T I N E S   *
      *****
      * INITIAL POSITIONS FOR DINOS &
      * CAVEMEN BY ROUND NUMBER-->
      *****
      PADLO
      DFB  PADRND1
      DFB  PADRND2
      DFB  PADRND3
      POSADR
      PADRND1
      DFB  20,90,20,90,20
      PADRND2
      DFB  20,85,80,50,20
      PADRND3
      DFB  30,110,30,70,80
      * INITIALIZATION FOR A NEW RND *
      *****
      IGAME
      LDA  #$31
      STA  ATCTL      ; MIRROR
      LDA  #0
      STA  ADUR
      STA  BDUR      ; SND ON.
      LDA  #WDTBL-WDSONG1A
      STA  AIDX
      LDA  #WDTBL-WDSONG1B
      STA  BIDX
      STA  BIDX      ; SONG1.
      IROUND
      *LDX  PLAYER
      LDY  ROUND1
      LDA  PADLO,Y
      STA  TEMP1
      LDA  #>POSADR
      STA  TEMP2
      LDA  EGGTBL,Y
      STA  EGGPS      ; INIT EGG ON/OFF FLAGS.
      LDY  #4
      LDA  (TEMP1),Y
      STA  DINFOS,Y
      LDA  IDDIR,Y
      STA  DINDIR,Y
      LDA  IDDAT,Y
      STA  DINDAT,Y
      LDA  IDLN,Y      ; GET DINO LINE NUM.
      STA  DINLN,Y
      DEY
      BPL  IDINO

```

only 4/DC

✓

3

E920:	A9	0A	>62	LDA	#10	
E922:	85	95	>63	STA	EXPPOS	
E924:	A9	00	>64	LDA	#0	
E926:	85	94	>65	STA	EXPLN	
E928:	85	B7	>66	STA	ROPEST	ROPE OFF.
E92A:	A9	80	>67	LDA	##80	
E92C:	85	97	>68	STA	EXPSTAT	:LITE OFF,EXP FACE R.
E92E:	A9	05	>69	LDA	#RESUM	
E930:	85	81	>70	STA	MODE	
E932:	A9	70	>71	LDA	##70	
E934:	85	85	>72	STA	FRAMEL	
E936:	60		>73	RTS		
			>74			
E937:	AA	55	>75	EGGTBL		
			>76	DFB	\$AA,\$55,\$A5	
			>77			
			>78			
			>79			
			>80			
			>81			
E93A:	A5	85	>82	LDA	FRAMEL	
E93C:	29	07	>83	AND	#7	
E93E:	D0	15	>84	BNE	AN99	
			>85			
E940:	A5	97	>86	LDA	EXPSTAT	
E942:	29	10	>87	AND	##10	:FALLING?
E944:	F0	04	>88	BEQ	AN44	:JN.
E946:	A2	03	>89	LDX	#3	
E948:	D0	09	>90	BNE	AN80	:FALL IMG.
			>91			
			>92	AN44		
E94A:	A6	96	>93	LDX	EXPDAT	
E94C:	E8		>94	INX		
E94D:	E0	04	>95	CPX	#4	
E94F:	D0	02	>96	BNE	AN80	
E951:	A2	00	>97	LDX	#0	
			>98	AN80		
E953:	86	96	>99	STX	EXPDAT	
			>100	AN99		
E955:	60		>101	RTS		
			>102			

\*\*\*\*\*  
 \* ANIMATE EXPLORER --> \*  
 \*\*\*\*\*  
 ANIMEXP

```

>104 *****
>105 * MOVEXP: *
>106 *   ADD H OFFSET TO EXP POS. *
>107 *   ADD V OFFSET TO EXP LN. *
>108 *   DO NOTHING IF EITHER *
>109 *   MOVE WOULD PUT EXP PAST *
>110 *   ALLOWED UDL OR R EDGES. *
>111 * *
>112 * IN: *
>113 *   A = VERT OFFSET *
>114 *   X = HORIZ OFFSET *
>115 * EG: *
>116 *           VOFF   HOFF *
>117 *           ----   ---- *
>118 * UR           1       1 *
>119 * DR          FF       1 *
>120 * UL           1      FF *
>121 * DL          FF      FF *
>122 * R            0       1 *
>123 * L            0      FF *
>124 * U            1       0 *
>125 * D           FF       0 *
>126 * *
>127 *****
>128 VMAX   =    113
>129 VMIN   =      0
>130 HMAX   =    127
>131 HMIN   =      6
>132
>133 MOVEXP
>134 CLC
>135 ADC   EXPLN
>136 TAY
>137 CMP   #VMAX
>138 BCS   BADMOV
>139 CMP   #VMIN
>140 BCC   BADMOV
>141
>142 TXA
>143 CLC
>144 ADC   EXPPOS
>145 CMP   #HMAX
>146 BCS   BADMOV
>147 CMP   #HMIN
>148 BCC   BADMOV
>149
>150 STA   EXPPOS
>151 STY   EXPLN
>152 BADMOV
>153 RTS

```

E956: 18  
E957: 65 94  
E959: A8  
E95A: C9 71  
E95C: B0 14  
E95E: C9 00  
E960: 90 10  
  
E962: 8A  
E963: 18  
E964: 65 95  
E966: C9 7F  
E968: B0 08  
E96A: C9 06  
E96C: 90 04  
  
E96E: 85 95  
E970: 84 94  
  
E972: 60

;SV PROPOSED NEW EXPLN.  
  
;VERT IS OK.  
  
;BOTH NEW H+V ARE OK->  
;SV NEW HPOS.  
;SV NEW VPOS.

```

>155 *****
>156 * ONLTR: *
>157 * 1) IS ROPE FACING LTR? *
>158 * 2) IS ROPE ANCHORED? *
>159 * 3) IS EXPLORER ON ROPE? *
>160 *****
>161 ONLTR
E973: A9 08 >162 LDA #9
E975: 25 B7 >163 AND ROPEST ;ROPE LTR?
E977: F0 15 >164 BEQ NOROPE ;J N.
>165 EXON
E979: A5 B7 >166 LDA ROPEST
E97B: 6A >167 ROR
E97D: 90 10 >168 BCC NOROPE ;J EXP NOT ON ROPE.
E97E: A5 B7 >169 LDA ROPEST
E980: 29 C0 >170 AND #$C0
E982: C9 C0 >171 CMP #$C0 ;ROPE ANCHORED?
E984: D0 08 >172 BNE NOROPE
>173 ;ELSE ALL ROPE TESTS PASSED.
E986: 38 >174 SEC
E987: 60 >175 RTS
>176 ;
>177 *****
>178 * ONRTL: *
>179 * *
>180 * *
>181 *****
>182 ONRTL
E988: A9 08 >183 LDA #9
E98A: 25 B7 >184 AND ROPEST ;ROPE IS RTL?
E98C: F0 EB >185 BEQ EXON ;J Y.
>186 NOROPE
E98E: 18 >187 CLC
E98F: 60 >188 RTS
>189 ;

```

```

>191 *****
>192 * LOAD PTRS FOR 6 SPRITES--*
>193 * X = HI PTR FOR WHERE DATA IS *
>194 * A = LO ADDR OF TBL WHERE LO *
>195 *     BYTE PTRS ARE *
>196 *****
>197 SPRIT6
E990: 85 EF >198 STA TEMP1
E992: A9 ED >199 LDA #PDGTBL
E994: 85 F0 >200 STA TEMP2
E996: 86 F1 >201 STX TEMP3
E998: A0 05 >202 LDY #5
E99A: A2 0B >203 LDY #11
>204 SFP6
E99C: A5 F1 >205 LDA TEMP3
E99E: 95 F2 >206 STA PD100K,X
E9A0: CA >207 DEX
E9A1: 81 EF >208 LDA (TEMP1),Y
E9A3: 95 F2 >209 STA PD100K,X
E9A5: CA >210 DEX
E9A6: 88 >211 DEY
E9A7: 10 F3 >212 BFL SPR6
E9A9: 60 >213 RTS
>214 *****
>215 * PAINT INVENTORY--*
>216 *****
>217 INVENT
E9AA: A6 10 >218 LDY #16
>219 INVS
E9AC: 85 02 >220 STA ATWAIT
>221 *LDX EXP1,Y
E9AE: A5 95 >222 LDA FRAMEL
E9B0: 29 20 >223 AND #$20
E9B2: F0 00 >224 BEQ EX1
>225 *LDX EXP2,Y
>226 EX1
E9B4: 86 1B >227 STX ATADAT
>228 *LDA EXPCOL,Y
E9B6: 85 06 >229 STA ATACOL
E9B8: 88 >230 DEY
E9B9: 10 F1 >231 BFL INVS
E9BB: A9 00 >232 LDA #0
E9BD: 85 1B >233 STA ATADAT
E9BF: 60 >234 RTS
>235 INVTBL
E9C0: 00 80 81
E9C3: 93 03 13
E9C6: 33 >236 DFB 0,$90,$81,$83,$03,$13,$33

```

out



```

      22          ORG BEG0BJ+$B00
      23          ORG BEG0RG-$B00
      24          PUT ROC.CLIFFHIT
      25          */ ROC.CLIFFHIT LASTED:12/11/83
      26          *****
      27          * ONPLAT- IS EXP ON A PLATFORM *
      28          *   RET EC IF YES.   *
      29          *****
      30          ONPLAT
      31          LDA EXPLN
      32          CNP5
      33          SEC
      34          SEC #28
      35          BPL CNP5
      36          CLC
      37          ADC #28
      38          RTS
      39          IDPOS
      40          DFB 10,16,24,32,40
      41          IDDIR
      42          DFB 0,0,0,0,0
      43          IDDAT
      44          DFB 0,9,0,10,0
      45          IDLN
      46          DFB 0,28,56,84,112
      47          *****
      48          * CLIFFHIT-IS A POS ON A CLIFF? *
      49          *   IN: ACC=H POS   *
      50          *       X = BAND # (0-5)   *
      51          *   *   *
      52          * OUT: C=1 = HIT CLIFF   *
      53          *       C=0 = MISSED CLIFF   *
      54          *****
      55          CLIFFHIT
      56          STA TEMP1      ;SV HPOS
      57          LDA LEVEL0,X
      58          STA TEMP2
      59          LDA #>LEVTBL
      60          STA TEMP3
      61          LDY ROUND1
      62          LDA (TEMP2),Y
      63          STA TEMP2
      64          LDA #>HITTEL
      65          STA TEMP3
      66          ;T3+T4 HAV START ADDR OF RANGE TBL
      67          LDY #$FF
      68          RTRY
      69          INY
      70          LDA (TEMP2),Y      ;GET A LEFT EDGE.
      71          CMP #$FF          ;DONE ALL CLIFFS THIS LVL?
      72          BEQ MISSCL        ;J Y.
      73          ;
      74          CMP TEMP1
      75          BCS MISSCL        ;J LEFT EDGE OF CLIFF>POS.
      76          ;LEFT EDGE OF CLIFF IS < POS.
      77          INY
      78          LDA (TEMP2),Y      ;GET A RT EDGE.

```

EB00: A5 94  
EB02: 38  
EB03: E9 1C  
EB05: 10 FB  
EB07: 18  
EB08: 69 1C  
EB0A: 60  
EB0B: 0A 10 18  
EB0E: 2C 28  
EB10: 00 00 00  
EB13: 00 00  
EB15: 00 09 00  
EB18: 0A 00  
EB1A: 00 1C 38  
EB1D: 54 70  
EB1F: B5 EF  
EB21: BD A1 EB  
EB24: B5 F0  
EB26: A9 EB  
EB28: B5 F1  
EB2A: A4 82  
EB2C: B1 F0  
EB2E: B5 F0  
EB30: A9 EB  
EB32: B5 F1  
EB34: A0 FF  
EB36: C8  
EB37: B1 F0  
EB39: C9 FF  
EB3B: F0 0D  
EB3D: C5 EF  
EB3F: B0 09  
EB41: C8  
EB42: B1 F0

*Handwritten notes:*  
+ right edge? 0  
to the right  
of ledge LV's  
only 4  
INITIAL DINO LINE NUMS-0

```

EB44: 03 EF      258      CMP      TEMP1
EB45: 90 EE      259      BCC      PTRY      ; J POSSET EDCB
EB46: 00          260      HITEL
EB47: 00          261      SEC
EB48: 60          262      RTS
EB49: 00          263      MISSOL
EB50: 18          264      DLE
EB51: 60          265      RTS
EB52: 00          266      ;
EB53: 00          267      *****
EB54: 00          268      * HIT TABLES-RANGES WHERE POS/4*
EB55: 00          269      * IS OKAY TO WALK ON BY LEVEL *
EB56: 00          270      *****
EB57: 00          271      ;
EB58: 00          272      HITTBL
EB59: 00          273      ; SCREEN1, LEVEL 0-7
EB60: 00          274      S1LV0
EB61: 00          275      S1LV1
EB62: 04 34      276      DFB      4,52
EB63: 54 84      277      DFB      84,132
EB64: FF          278      DFB      $FF
EB65: 00          279      S1LV2
EB66: 00          280      S1LV3
EB67: 10 38      281      DFB      16,56
EB68: 50 78      282      DFB      80,120
EB69: FF          283      DFB      $FF
EB70: 00          284      S1LV4
EB71: 08 38      285      DFB      8,56
EB72: 3C 40      286      DFB      60,76
EB73: 50 90      287      DFB      80,128
EB74: FF          288      DFB      $FF
EB75: 00          289      S1LV5
EB76: 00          290      S2LV5
EB77: 14 34      291      DFB      20,52
EB78: 50 70      292      DFB      80,112
EB79: FF          293      DFB      $FF
EB80: 00          294      ;
EB81: 00          295      S2LV6
EB82: 04 3C      296      DFB      4,60
EB83: 48 90      297      DFB      72,128
EB84: FF          298      DFB      $FF
EB85: 00          299      S2LV1
EB86: 20 3C      300      DFB      32,60
EB87: 4C 68      301      DFB      76,104
EB88: FF          302      DFB      $FF
EB89: 00          303      S2LV2
EB90: 28 40      304      DFB      40,64
EB91: 48 60      305      DFB      72,96
EB92: FF          306      DFB      $FF
EB93: 00          307      S2LV3
EB94: 24 40      308      DFB      36,64
EB95: 48 64      309      DFB      72,100
EB96: FF          310      DFB      $FF
EB97: 00          311      S2LV4
EB98: 10 38      312      DFB      16,56
EB99: 3C 4C      313      DFB      60,76
EB100: 50 78      314      DFB      80,120
EB101: FF          315      DFB      $FF
EB102: 00          316      ;
EB103: 00          317      S3LV0
EB104: 00          318      S3LV1
EB105: 08 38      319      DFB      8,56
EB106: 4C 7C      320      DFB      76,128
EB107: FF          321      DFB      $FF
EB108: 00          322      S3LV2
EB109: 08 3C      323      DFB      8,60

```

EB84: 4B 7C	>124	DFB	72,124
EB86: FF	>125	DFB	\$FF
	>126	S3LV0	
	>127	S3LV4	
EB87: 1B 3C	>128	DFB	24,60
EB89: 4B 6C	>129	DFB	72,108
EB8B: FF	>130	DFB	\$FF
	>131	S3LV5	
EB8C: 3B 4C	>132	DFB	56,76
EB8E: FF	>133	DFB	\$FF
	>134		:
	>135	* LO BYTE ADDR FOR BASE OF HIT TBL-:	
	>136		:
	>137	LEVTBL	
	>138	LEV0	
EB8F: 4C	>139	DFB	<S1LV0
EB90: 62	>140	DFB	<S2LV0
EB91: 7D	>141	DFB	<S3LV0
	>142	LEV1	
EB92: 4C	>143	DFB	<S1LV1
EB93: 67	>144	DFB	<S2LV1
EB94: 7D	>145	DFB	<S3LV1
	>146	LEV2	
EB95: 51	>147	DFB	<S1LV2
EB96: 6C	>148	DFB	<S2LV2
EB97: 82	>149	DFB	<S3LV2
	>150	LEV3	
EB98: 51	>151	DFB	<S1LV3
EB99: 71	>152	DFB	<S2LV3
EB9A: 87	>153	DFB	<S3LV3
	>154	LEV4	
EB9B: 56	>155	DFB	<S1LV4
EB9C: 76	>156	DFB	<S2LV4
EB9D: 87	>157	DFB	<S3LV4
	>158	LEV5	
EB9E: 5D	>159	DFB	<S1LV5
EB9F: 5D	>160	DFB	<S2LV5
EBA0: 8C	>161	DFB	<S3LV5
	>162		:
	>163	* LO BYTE ADDR FOR BASE OF LEVEL TBL-:	
	>164		:
	>165	LEVEL0	
EBA1: 9F	>166	DFB	<LEV0
EBA2: 92	>167	DFB	<LEV1
EBA3: 95	>168	DFB	<LEV1
EBA4: 9B	>169	DFB	<LEV3
EBA5: 9B	>170	DFB	<LEV4
EBA6: 9E	>171	DFB	<LEV5
	>172		:

```

26 *****
27 * BIRD: * MISC IMAGES--> *
28 *****
29 OBJ BEGOBJ+$C00
30 ORG BEGORG+$C00
31 PUT ROC.BIRD1
32 */ ROC.BIRD1 LASTED: 11.17.33
33 ;
34 * P T E R Y D A C T Y L --
35 *****
36 BIRD1
37 DFB 0,0
38
39 DFB $3C,$3C,$3C,$3C
40
41 DFB $28,$10,$18,$3C
42
43 DFB $3E,$7F,$A9,$6C
44
45 DFB $1C,$1A,$1D,$0F
46
47 DFB 0,0,0,0
48 ;
49 BIRD2
50 DFB 0,0,0
51
52 DFB $3C,$3C,$3C,$3C
53
54 DFB $28,$10,$1C,$3E
55
56 DFB $7F,$BD,$6E,$0F
57
58 DFB 0,0,0,0
59
60 DFB 0,0,0,0
61 ;
62 BRDCOL
63 DFB 0,0
64
65 DFB $F2,$F2,$F2,$F2
66
67 DFB $44,$44,$46,$46
68
69 DFB $46,$46,$46,$46
70
71 DFB $46,$46,$46,$46
72
73 DFB $46,$46,$46,$46
74
75 DFB $46,$46,$46,$46
76
77 DFB $46,$46,$46,$46
78 ;

```

```

93          ORG  BEGORG+$D00
94          ORG  BEGORG+$D00
95          *****
96          *   IMAGE & ADDRESS TABLES   *
97          *****
98          PUT  ROC.SCORER RTN
11          */ROC.SCORER RTN - LASTED 12/19/83
12          * DISPLAYS A 6 DIGIT(SPRITE) SCORE
13          *****
14          SCORE
15          LDA  #3
16          STA  ATWAIT
17          STA  ATACTL      ;1X 3C 8S
18          STA  ATBCTL
19          STA  ATASEL      ;SELECT OUTER BUFF
20          STA  ATBSEL
21          ;
22          * PUT SPRITES SIDE BY SIDE
23          LDA  #$10
24          STA  ATSAIN
25          ASL
26          STA  ATSBIN
27          NOP
28          NOP
29          NOP
30          NOP
31          NOP
32          NOP
33          STA  ATSALA      ;LATCH SPRITE A
34          STA  ATSBLA      ;B 9 PIXELS LATER
35          STA  ATWAIT
36          STA  ATMVIN
37          ;
38          * ENTRY FOR NO REPOS-->
39          *****
40          SCORNF
41          LDA  #7
42          STA  TEMP1      ;LINE COUNT
43          * ACTUAL SPRITE PAINTING-1
44          SC4
45          LDY  TEMP1
46          LDA  (PD100K),Y
47          STA  ATADAT
48          STA  ATWAIT
49          LDA  (PD10K),Y   ;GET 10K DATA
50          STA  ATBDAT
51          LDA  (PD1K),Y    ;GET 1K DATA
52          STA  ATADAT      ;10K SEEN NOW
53          LDA  (PD100),Y   ;GET 100'S DATA
54          STA  TEMP2      ;SV IT.
55          LDA  (PD10),Y    ;GET 10'S DATA
56          TAX            ;SV IT.
57          LDA  (PD1),Y     ;1'S DATA
58          TAY            ;SAVE IT FOR TIME CRITICAL
59          LDY  TEMP2      ;GET 100'S DATA
60          STA  ATBDAT      ;1K SEEN NOW.
61          STX  ATADAT      ;100 SEEN NOW
62          STY  ATBDAT      ;10 SEEN NOW
63          STY  ATADAT      ;DUMMY WRITE, 1 SEEN NOW
64          DEC  TEMP1      ;LINE COUNT
65          BFL  SC4        ;LOOPTILL DONE
66          *
67          *RESET DATA/CONTROL REGS
68          LDA  #0

```

```

ED00: A9 03
ED02: 85 02
ED04: 85 04
ED06: 85 05
ED08: 85 25
ED0A: 85 26

```

```

ED0C: A9 10
ED0E: 85 20
ED10: 0A
ED11: 85 21
ED13: EA
ED14: EA
ED15: EA
ED16: EA
ED17: EA
ED18: EA
ED19: EA
ED1A: 85 10
ED1C: 95 11
ED1E: 85 00
ED20: 85 2A

```

```

ED22: A9 07
ED24: 85 EF

```

```

ED26: A4 EF
ED28: B1 F2
ED2A: 85 1B
ED2C: 85 02
ED2E: B1 F4
ED30: 85 1C
ED32: B1 F6
ED34: 85 1B
ED36: B1 F8
ED38: 85 F0
ED3A: B1 FA
ED3C: AA
ED3D: B1 FC
ED3F: A8
ED40: A5 F0
ED42: 85 1C
ED44: 86 1B
ED46: 84 1C
ED48: 84 1B
ED4A: C6 EF
ED4C: 10 DB

```

```

ED4E: A9 00

```



ED4E: 47 00  
ED50: 95 15  
ED52: 85 10  
ED54: 35 28  
ED56: 50

259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282

LDA 30  
STA ATASAT  
STA ATBOUT  
STA ATREMY  
RTS

\*\*\*\*\*  
\* SPRITE MISSILE POSITIONING \*  
\* W/D MVIN \*  
\*\*\*\*\*  
POS

ED57: 85 02  
ED59: 95 20  
ED5B: 29 0F  
ED5D: A8  
ED5E: A5 85  
ED60: A5 85  
ED62: A5 85  
ED64: EA  
ED65: 38  
ED66: 10 FD  
ED68: 95 10  
ED6A: 60

STA ATWAIT  
STA ATSAIN,X ; FINE INCR.  
AND #50F  
TAY  
LDA FRAMEL  
LDA FRAMEL  
LDA FRAMEL  
NOP  
POS10 DEY  
BPL POS10  
STA ATSALA,X ; LATCH SPRITE.  
RTS  
\*

ED6E: 97  
ED6F: 98  
ED70: 99  
ED71: 00  
ED72: 01  
ED73: 02  
ED74: 03  
ED75: 04  
ED76: 05  
ED77: 06

ED78: 07  
ED79: 08  
ED7A: 09

ED7B: 0A  
ED7C: 0B  
ED7D: 0C

ED7E: 0D  
ED7F: 0E  
ED80: 0F  
ED81: 10  
ED82: 11  
ED83: 12  
ED84: 13  
ED85: 14  
ED86: 15  
ED87: 16  
ED88: 17  
ED89: 18  
ED8A: 19  
ED8B: 1A  
ED8C: 1B  
ED8D: 1C  
ED8E: 1D  
ED8F: 1E  
ED90: 1F

ED91: 20  
ED92: 21  
ED93: 22  
ED94: 23  
ED95: 24  
ED96: 25  
ED97: 26  
ED98: 27  
ED99: 28  
ED9A: 29  
ED9B: 2A  
ED9C: 2B  
ED9D: 2C  
ED9E: 2D  
ED9F: 2E  
EDA0: 2F

EDA1: 30  
EDA2: 31  
EDA3: 32  
EDA4: 33  
EDA5: 34  
EDA6: 35  
EDA7: 36  
EDA8: 37  
EDA9: 38  
EDAA: 39  
EDAB: 3A  
EDAC: 3B  
EDAD: 3C  
EDAE: 3D  
EDAF: 3E  
EDB0: 3F

EDB1: 40  
EDB2: 41  
EDB3: 42  
EDB4: 43  
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EDB6: 45  
EDB7: 46  
EDB8: 47  
EDB9: 48  
EDBA: 49  
EDBB: 4A  
EDBC: 4B  
EDBD: 4C  
EDBE: 4D  
EDBF: 4E  
EDC0: 4F

\* WORD "C.158" COLLECT

EDC1: 50

EDC2: 51  
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EDC4: 53  
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EDC6: 55  
EDC7: 56  
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EDC9: 58  
EDCA: 59  
EDCB: 5A  
EDCC: 5B  
EDCD: 5C  
EDCE: 5D  
EDCF: 5E  
EDD0: 5F

\* WORD "C.159" COLLECT

EDD1: 60  
EDD2: 61  
EDD3: 62  
EDD4: 63  
EDD5: 64  
EDD6: 65  
EDD7: 66  
EDD8: 67  
EDD9: 68  
EDDA: 69  
EDDB: 6A  
EDDC: 6B  
EDDD: 6C  
EDDE: 6D  
EDDF: 6E  
EDE0: 6F

\* WORD "C.160" COLLECT

EDE1: 70  
EDE2: 71  
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EDE5: 74  
EDE6: 75  
EDE7: 76  
EDE8: 77  
EDE9: 78  
EDEA: 79  
EDEB: 7A  
EDEC: 7B  
EDED: 7C  
EDED: 7D  
EDEF: 7E  
EDE0: 7F

\* WORD "C.161" COLLECT

EDE1: 80  
EDE2: 81  
EDE3: 82  
EDE4: 83  
EDE5: 84  
EDE6: 85  
EDE7: 86  
EDE8: 87  
EDE9: 88  
EDEA: 89  
EDEB: 8A  
EDEC: 8B  
EDED: 8C  
EDED: 8D  
EDEF: 8E  
EDE0: 8F

\* WORD "C.162" COLLECT

EDE1: 90  
EDE2: 91  
EDE3: 92  
EDE4: 93  
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EDE6: 95  
EDE7: 96  
EDE8: 97  
EDE9: 98  
EDEA: 99  
EDEB: 9A  
EDEC: 9B  
EDED: 9C  
EDED: 9D  
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EDE0: 9F

\* WORD "C.163" COLLECT

EDE1: 00  
EDE2: 01  
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EDE4: 03  
EDE5: 04  
EDE6: 05  
EDE7: 06  
EDE8: 07  
EDE9: 08  
EDEA: 09  
EDEB: 0A  
EDEC: 0B  
EDED: 0C  
EDED: 0D  
EDEF: 0E  
EDE0: 0F

LE93: 07  
CI94: 08  
ED95: 09  
ED96: 0A

07  
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\* WORD "STATUS"

07  
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LE93: 07  
CI94: 08  
ED95: 09  
ED96: 0A  
ED97: 0B  
ED98: 0C

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ED99: 0D  
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ED9C: 10  
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ED9E: 12  
ED9F: 13

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EDBF: 80  
EDAC: 82  
EDAI: 86  
EDAR: 81

EDBF: 80  
EDAC: 87  
EDAI: 80  
EDAR: 80

EDBF: 80  
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EDAI: 18  
EDAR: 81

EDBF: 81  
EDAC: 80  
EDAI: 81  
EDAR: 87

EDBF: A2  
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EDAR: 80

EDBF: 87  
EDAC: 87  
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EDAR: 87

EDBF: 87  
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EDAR: 87

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EDBF: 80

PAG

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 7. *Chlorophyll g* (Chl *g*)  
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 9. *Chlorophyll i* (Chl *i*)  
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 11. *Chlorophyll k* (Chl *k*)  
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 19. *Chlorophyll s* (Chl *s*)  
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 24. *Chlorophyll x* (Chl *x*)  
 25. *Chlorophyll y* (Chl *y*)  
 26. *Chlorophyll z* (Chl *z*)  
 27. *Chlorophyll aa* (Chl *aa*)  
 28. *Chlorophyll ab* (Chl *ab*)  
 29. *Chlorophyll ac* (Chl *ac*)  
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ELCOT	40
ELCOT	18
ELCOT	14
ELCOT	39
ELCOT	10

ED00:	8A
ED08:	AC
ED0F:	AE
ED1E:	80
ED26:	82
ED2F:	14
ED38:	B6
ED40:	B2
ED49:	86
ED52:	7C
ED5B:	8C
ED64:	7E
ED6D:	8C
ED76:	14

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ELDA:  B0
FDD:   B2
FDD:   B4
CDD:   B6
ALDA:  C0
EDDA:  C2
CDD:   C4
EDDA:  C6

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EDEC1:  7
EDEC2:  34
EDEC3:  37
EDEC4:  56
EDEC5:  66
EDEC6:  86
EDEC7:  86
FILE9:  A1
EDEC8:  B

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1001  
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DFE	CONF1
DDB	CONF2
DSB	CONF3
DPE	CONF4
DFB	CONF5

[illegible]

DEF	WATER
DFF	WATER
DTC	WATER
DEB	WATER
DHE	WATER
DHF	WATER
DHL	WATER
DHS	WATER

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DATE	1997-12-1
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DATE	1997-12-1
TIME	14:20:00

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1. The first step is to identify the key components of the system. This involves understanding the hardware, software, and data involved in the process.

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10 * F0511045 10 10 10
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010      IFE  #00, #00, #00, #20, #20
020      IFE  #01, #01, #01, #41, #41
030      ;
040      * POSITIONS 20 TO 22 ---
050      *-----*

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23      DFB  $C1,$11,$01 *$1,$01
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25      DFE  $D1,$C1,$B1,$A1,$91
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27      * POSITIVE 30 TO 39----
28      *-----*

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037      DFB  #05, #10, #15, #20, #25
038      DFB  #17, #22, #27, #32, #37
039      ;
040  * END1105E 3.  TO  67---
041  *****

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EF 05: 05 05 05  
EF 06: 06 06 06  
EF 07: 07 07 07

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EF 08: 08 08 08  
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EF 09: 09 09 09  
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EF 28: 28 28 28  
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|         |         |         |         |         |         |        |         |
|---------|---------|---------|---------|---------|---------|--------|---------|
| FORN    | =\$E17  | VTANK   | =\$E831 | FTBL    | =\$E790 | GAME   | =\$E0   |
| GRAND   | =\$E105 | SDTIT   | =\$E504 | GOVER   | =\$E03  | GREEN  | =\$E04  |
| HAYDIND | =\$E4A4 | HAYWHO  | =\$E319 | HABAND  | =\$E10E | HESHI  | =\$E330 |
| HICND   | =\$E8C7 | HITCL   | =\$E848 | HITTSB  | =\$E84C | HMAX   | =47F    |
| HMIN    | =\$06   | HOFF    | =\$E064 | HOLD10  | =\$E6A1 | IODAT  | =\$E815 |
| IDDIF   | =\$E810 | IDINO   | =\$E906 | IDLN    | =\$E81A | IDPCS  | =\$E80D |
| IGAME   | =\$E8E0 | INBAND  | =\$E333 | INVS    | =\$E9AC | INVENT | =\$E9AA |
| INVTBL  | =\$E9C0 | IROUND  | =\$E8F4 | JOY77   | =\$E0F5 | JOY80  | =\$E131 |
| JOY88   | =\$E12A | JOY99   | =\$E12D | JOYADN  | =\$20   | JOYALT | =\$4C   |
| JOYART  | =\$80   | JOYAUP  | =\$10   | JOYDAT  | =\$0280 | JOYED  | =\$E0CB |
| KONAM1  | =\$EEA0 | KONAM2  | =\$EEA3 | KONAM3  | =\$EE80 | KONAMI | =\$ED81 |
| LA      | =\$EE20 | LAT1    | =\$FF10 | LAT2    | =\$FF31 | LAT3   | =\$FF33 |
| LAT4    | =\$FF59 | LAT5    | =\$FF67 | LAT6    | =\$FF87 | LAT7   | =\$FFA2 |
| LAT8    | =\$FFB8 | LBLUE   | =\$74   | LBROWN  | =\$18   | LE     | =\$E200 |
| LETTES  | =\$EE00 | LEVO    | =\$E88F | LEV1    | =\$E892 | LEV2   | =\$E295 |
| LEV3    | =\$E898 | LEV4    | =\$E89B | LEV5    | =\$E89E | LEVELC | =\$E8A1 |
| LEVTEL  | =\$E8BF | LG      | =\$EE10 | LITEOFF | =\$E518 | LITEON | =\$E51D |
| LITON   | =\$E55B | LOFF    | =\$E389 | LOSND   | =\$E8C3 | LS     | =\$0C00 |
| LSIDE   | =\$E4CB | LT      | =\$EE16 | LTOFF   | =\$E542 | LTCR   | =\$E530 |
| MA      | =\$E7   | MALO    | =\$E3   | MB      | =\$ED   | MBLO   | =\$E9   |
| MID1    | =\$E66F | MISC    | =\$F600 | MISSCL  | =\$E84A | NODE   | =\$81   |
| MOV99   | =\$E2AF | NOVEL   | =\$E235 | MOVEM   | =\$E240 | MOVEXP | =\$E256 |
| NOVLTR  | =\$E297 | NOVRT   | =\$E26C | NOVRTL  | =\$E273 | MV1    | =\$E251 |
| MVDOWN  | =\$E0B8 | MVUP    | =\$E091 | NDOWN   | =\$E0C5 | NEXTMY | =\$E299 |
| NFALL   | =\$E3B5 | NINE    | =\$E99F | NJOY    | =\$E07A | NOADD  | =\$E47C |
| NOBUT   | =\$E1B4 | NDEUTD  | =\$E1B2 | NOEGG   | =\$E4D7 | NDELEV | =\$E4F0 |
| NONUM   | =\$E695 | NORES   | =\$E1C2 | NORUPE  | =\$E98E | NOSEL  | =\$E1F0 |
| NOSEL2  | =\$E1FE | NOSONG  | =\$E22C | NOSTUN  | =\$E36E | NOTHIT | =\$E352 |
| NOTTL   | =\$E214 | NRITE   | =\$E0E1 | NUGAM   | =\$E1DF | NULL   | =\$E808 |
| NULLM   | =\$F6DC | NULLTB  | =\$ED7B | NULLX   | =\$F97A | NUP    | =\$E0A4 |
| NXTEGG  | =\$E4D4 | ONE     | =\$EF5F | ONLTR   | =\$E973 | ONPS   | =\$E802 |
| ONPLAT  | =\$E800 | ONRTL   | =\$E983 | ORANGE  | =\$28   | PADLO  | =\$E8CE |
| PADRND1 | =\$E8D1 | PADRND2 | =\$E8D6 | PADRND3 | =\$E8DB | PAINT  | =\$FD00 |
| PD1     | =\$FC   | PD10    | =\$FA   | PD100   | =\$F8   | PD100K | =\$F2   |
| PD10K   | =\$F4   | PD1K    | =\$F6   | PEG99   | =\$E60F | PLAY   | =\$01   |
| PLAY2   | =\$E053 | PLAYER  | =\$80   | PNTBON  | =\$E712 | POS    | =\$E057 |
| POS10   | =\$E265 | POSADR  | =\$E8D1 | POSRTN  | =\$EDE2 | POSTBL | =\$EED0 |
| PRES1   | =\$EE20 | PRES2   | =\$EE30 | PRES3   | =\$EE30 | PRES4  | =\$EE40 |
| PRES5   | =\$EE48 | PRES6   | =\$EE50 | PRESNT  | =\$ED87 | PROCK  | =\$E5F0 |
| PSCORE  | =\$E68C | PT99    | =\$E2F9 | PURPLE  | =\$68   | PWRTIM | =\$B2   |
| PWRUP   | =\$E012 | READIT  | =\$E07D | RED     | =\$26   | REDTBL | =\$F647 |
| RESUM   | =\$05   | RLN80   | =\$E58E | RLN90   | =\$E596 | RLN99  | =\$E5A5 |
| RM15    | =\$E412 | RM99    | =\$E438 | RMDR    | =\$E140 | RMDRS  | =\$E1AB |
| RNR1    | =\$EE58 | RNR2    | =\$EE60 | RNR3    | =\$EE68 | RNR4   | =\$EE70 |
| RNR5    | =\$EE78 | RNR6    | =\$EE80 | RNROPE  | =\$ED8D | ROCKLN | =\$BA   |
| ROCKPOS | =\$DB   | ROPE1   | =\$F66D | ROPE2   | =\$F665 | ROPELN | =\$B5   |
| ROPEMON | =\$E3EE | ROPEST  | =\$B7   | ROPPOS  | =\$B6   | ROUND1 | =\$B2   |
| RSIDE   | =\$E4C5 | RTRY    | =\$E836 | S1LV0   | =\$E84C | S1LV1  | =\$E84C |
| S1LV2   | =\$E851 | S1LV3   | =\$E851 | S1LV4   | =\$E856 | S1LV5  | =\$E85D |
| S2LV0   | =\$E862 | S2LV1   | =\$E867 | S2LV2   | =\$E86C | S2LV3  | =\$E871 |
| S2LV4   | =\$E876 | S2LV5   | =\$E88D | S3LV0   | =\$E87D | S3LV1  | =\$E87D |
| S3LV2   | =\$E882 | S3LV3   | =\$E887 | S3LV4   | =\$E887 | S3LV5  | =\$E88C |
| GAIN    | =\$EC   | SAPOS0  | =\$FE   | SAPOS1  | =\$FC   | SAPOS2 | =\$FA   |
| SAPOS3  | =\$F8   | SAPOS4  | =\$F6   | SC4     | =\$ED25 | SCOR1H | =\$8C   |
| SCOR1L  | =\$88   | SCOR1M  | =\$8A   | SCORE   | =\$ED00 | SCORMP | =\$ED22 |
| SCORTB  | =\$ED6B | SCREEN  | =\$E60F | SELECT  | =\$04   | SET5   | =\$E75D |
| SETADR  | =\$E757 | SETR    | =\$E47E | SETUP   | =\$E643 | SEVEN  | =\$EF8F |
| SIX     | =\$EF87 | SN01    | =\$E780 | SND25   | =\$E797 | SND80  | =\$E787 |
| SND85   | =\$E7B9 | SND99   | =\$E7BC | SON99   | =\$E8CD | SONG1A | =\$E7B0 |
| SONG1B  | =\$E7DF | SONG2A  | =\$E7E6 | SOUND   | =\$E77E | SPR6   | =\$E99C |
| SPRIT6  | =\$E990 | STAGE   | =\$ED99 | STGSCR  | =\$E634 | STUN99 | =\$E771 |
| STUND   | =\$E35A | SVRPOS  | =\$E172 | SWICOL  | =\$03   | SWIREC | =\$01   |
| SWISEL  | =\$02   | SWIT    | =\$E1B6 | SWITCH  | =\$02E2 | TAN    | =\$FC   |
| TEMP1   | =\$EF   | TEMP11  | =\$EE   | TEMP12  | =\$E9   | TEMP13 | =\$EA   |
| TEMP2   | =\$F0   | TEMP3   | =\$F1   | TEMP4   | =\$F4   | TEMP5  | =\$F5   |
| TEMP6   | =\$F6   | TEMP7   | =\$F0   | TEMP8   | =\$F8   | TEMP9  | =\$F9   |



|          |        |        |        |          |        |          |        |
|----------|--------|--------|--------|----------|--------|----------|--------|
| TITBLR   | =#463E | TUGO   | =#84   | TDFL     | =#E65B | TDFSL    | =#E600 |
| TOPTIM   | =#48   | TWD    | =#EF67 | VTMT     | =#E206 | WMAX     | =#71   |
| VMIN     | =#C0   | VDPF   | =#E06F | VOL13L   | =#E83E | WATER    | =#E4EE |
| WATER1   | =#F680 | WATER2 | =#F68E | WATER3   | =#F684 | WATER4   | =#76B7 |
| WATER5   | =#F6B0 | WATER6 | =#F6B2 | WATER7   | =#F6B4 | WATER8   | =#F6B6 |
| WATERING | =#EDDA | WDBULL | =#E899 | WDCANN   | =#E89D | WDCXPI   | =#L8A3 |
| WDMGUN   | =#E8AA | WDRUN  | =#E8B5 | WDSUNG1A | =#E84E | WDSUNG1B | =#E843 |
| WDSUNG2A | =#E874 | WDTANK | =#E8BF | WDTBL    | =#E84B | WHITE    | =#0E   |
| WHITETB  | =#F600 | WHOHIT | =#E310 | XFACEL   | =#E187 | YELLOW   | =#1A   |
| YELOTB   | =#F62D | ZERO   | =#EF57 |          |        |          |        |

Symbol table - numerical order:

|         |        |          |        |         |        |        |        |
|---------|--------|----------|--------|---------|--------|--------|--------|
| ATSYNC  | =#00   | BLACK    | =#00   | VMIN    | =#00   | ATBLNH | =#01   |
| SWIRES  | =#01   | PLAY     | =#01   | ATWAIT  | =#02   | SWISBL | =#02   |
| TITLEM  | =#02   | GOVER    | =#03   | ATACTL  | =#04   | SELECT | =#04   |
| ATBCTL  | =#05   | RESUM    | =#05   | ATACOL  | =#06   | HMIN   | =#06   |
| ATECOL  | =#07   | SWICOL   | =#08   | ATSCOL  | =#09   | ATFCTL | =#0A   |
| ATADRD  | =#0B   | ATBORD   | =#0C   | WHITE   | =#0C   | ATSALA | =#10   |
| JOYAP   | =#10   | ATSBLA   | =#11   | ATAWAV  | =#15   | ATADIV | =#17   |
| LBFDWN  | =#18   | ATAVOL   | =#19   | YELLOW  | =#1A   | ATADAT | =#1B   |
| ATEDAT  | =#1C   | ATSAIN   | =#20   | JOYADN  | =#20   | ATSBIN | =#21   |
| ATASEL  | =#25   | ATBSEL   | =#26   | RED     | =#26   | ORANGE | =#28   |
| ATMVIN  | =#2A   | ATREMV   | =#2B   | ATJBA   | =#3C   | JOYALT | =#40   |
| PURPLE  | =#68   | VMAX     | =#71   | HMAX    | =#7F   | JOYART | =#80   |
| GAME    | =#80   | FLAYER   | =#80   | MODE    | =#81   | ROUND1 | =#82   |
| TOGO    | =#84   | FRAMEL   | =#85   | FRANEH  | =#86   | BTIME  | =#87   |
| SCOR1L  | =#88   | SCORIM   | =#8A   | SCORIH  | =#8C   | BONUSL | =#8E   |
| BONUSH  | =#8F   | AIDX     | =#90   | BIDX    | =#91   | ADUR   | =#92   |
| BDUR    | =#93   | EXPLN    | =#94   | BOTTIM  | =#94   | LBLUE  | =#94   |
| EXPPDS  | =#95   | EXPDAT   | =#96   | EXPSTAT | =#97   | DINLN  | =#98   |
| BLUE    | =#9A   | DINPOS   | =#9D   | DINDAT  | =#A2   | DINOST | =#A7   |
| DINDIR  | =#A7   | TOPTIM   | =#AB   | EGGPOS  | =#B1   | PWRTIM | =#B2   |
| ELEVST  | =#B3   | ELEV DAT | =#B4   | ROPELN  | =#B5   | ROFPOS | =#B6   |
| ROPEST  | =#B7   | BIRDPOS  | =#B8   | TERIST  | =#B9   | ROCKLN | =#BA   |
| ROCKPOS | =#BB   | ARD      | =#BC   | SAIN    | =#EC   | ACOL   | =#C1   |
| ADATHI  | =#C6   | ADATLO   | =#CB   | ADAT    | =#CF   | BDATLU | =#D1   |
| GREEN   | =#D4   | BDAT     | =#DS   | BCOLLO  | =#D7   | BCOL   | =#DB   |
| FMLO    | =#DD   | FM       | =#E1   | KALO    | =#E3   | MA     | =#E7   |
| TEMP11  | =#E8   | MBLO     | =#E9   | TEMP12  | =#E9   | TEMP13 | =#EA   |
| MB      | =#ED   | BAND     | =#EF   | TEMP1   | =#EF   | TEMP2  | =#F0   |
| TEMP3   | =#F1   | PD100K   | =#F2   | TEMP4   | =#F4   | PD10K  | =#F4   |
| TEMP5   | =#F5   | SAPDS4   | =#F6   | TEMP6   | =#F6   | PD1K   | =#F6   |
| BROWN   | =#F6   | TEMP7    | =#F7   | SAPDS3  | =#F8   | TEMP8  | =#F8   |
| PD100   | =#F8   | SAPDS2   | =#FA   | PD10    | =#FA   | SAPDS1 | =#FC   |
| PD1     | =#FC   | TAN      | =#FC   | SAPDS0  | =#FE   | JOYDAT | =#0280 |
| SWITCH  | =#0282 | TIMER    | =#0284 | TIME64  | =#0296 | BEGCB3 | =#8004 |
| BEGORG  | =#E000 | TOPSW    | =#E000 | PWRUP   | =#E012 | CLRAM  | =#E017 |
| BOTVI   | =#E024 | FRNE     | =#E02F | JOYRD   | =#E03B | PLAY2  | =#E053 |
| HOFF    | =#E064 | VDPF     | =#E06F | NJOY    | =#E07A | READIT | =#E07D |
| HVUP    | =#E091 | NUP      | =#E0A4 | MVDOWN  | =#E0BB | NDOWN  | =#E0C5 |
| NRITE   | =#E0E1 | JOY77    | =#E0F5 | JOY80   | =#E101 | GBAND  | =#E108 |
| NBAND   | =#E10E | CLTEST   | =#E11B | JOY88   | =#E12A | JOY79  | =#E12D |
| BUTTON  | =#E12D | BUTDN    | =#E147 | BD5     | =#E15C | BD55   | =#E16A |
| XFACEL  | =#E189 | SVRPOS   | =#E192 | BD6     | =#E194 | RMOR   | =#E1A1 |
| RMORS   | =#E1A8 | NOBUTD   | =#E1B2 | NOBUT   | =#E1B6 | SWIT   | =#E1B6 |
| NORES   | =#E1C2 | NUGAM    | =#E1DF | NOSEL   | =#E1F0 | NOSEL2 | =#E1FE |
| NOTTL   | =#E214 | NOSONG   | =#E22C | MOVE1   | =#E235 | MOVEM  | =#E24C |
| MV1     | =#E251 | MOVRT    | =#E26C | MOVRTL  | =#E27D | DINLTR | =#E28C |
| NOVLTR  | =#E297 | NEXTMV   | =#E299 | CHGDIR  | =#E29E | MOV99  | =#E2A7 |
| ANIN1   | =#E2B7 | ANIM2    | =#E2C1 | ANIM3   | =#E2C4 | ANIM97 | =#E2D1 |
| ENDIT   | =#E2D1 | VINT     | =#E2D6 | PT99    | =#E2F9 | WHOHIT | =#E319 |
| HAVNHC  | =#E319 | RESHIT   | =#E335 | FACEL   | =#E344 | NOTHIT | =#E355 |
| BTUND   | =#E35A | NOGTUN   | =#E36F | STUN97  | =#E371 | DECTIM | =#E397 |



|          |         |          |         |          |         |          |         |
|----------|---------|----------|---------|----------|---------|----------|---------|
| ELV80    | =\$E3DC | ELV99    | =\$E3DE | ELEV80D  | =\$E3D  | ELV90    | =\$E3DE |
| DEFAUSEH | =\$E3E9 | ROPEMON  | =\$E3EE | RM15     | =\$E412 | ATTAH    | =\$E431 |
| RM99     | =\$E438 | BIRDON   | =\$E440 | BRL99    | =\$E453 | CNTDOWN  | =\$E46D |
| NOADD    | =\$E47C | SETR     | =\$E47E | HAVDING  | =\$E4A4 | RSTDE    | =\$E4CE |
| LSIDE    | =\$E4CB | EGGON    | =\$E4CF | NXTEGG   | =\$E4D4 | NOEGG    | =\$E4D7 |
| WATER    | =\$E4EE | NOELEV   | =\$E4FB | AGAIN    | =\$E4FC | GOTIT    | =\$E504 |
| LITEOFF  | =\$E518 | LITEON   | =\$E51D | INBAND   | =\$E533 | LTOFF    | =\$E542 |
| COLEXP   | =\$E559 | LITON    | =\$E55B | EXP99    | =\$E571 | FLN80    | =\$E58E |
| RLN90    | =\$E596 | LTOR     | =\$E5A0 | RLN99    | =\$E5A5 | EXPON    | =\$E5C3 |
| PROCK    | =\$E5F0 | EPDS     | =\$E60D | PEG99    | =\$E60F | SCREEN   | =\$E64F |
| CLIFF    | =\$E631 | STGSCR   | =\$E634 | TITSCR   | =\$E63D | SETUP    | =\$E663 |
| TOP1     | =\$E658 | MID1     | =\$E66F | NONUM    | =\$E695 | DOT1     | =\$E697 |
| HOLD10   | =\$E6A1 | PSCORE   | =\$E6B3 | BOID     | =\$E6E7 | BOID2    | =\$E67E |
| BOID4    | =\$E708 | PNTBON   | =\$E712 | SETADR   | =\$E757 | SETS     | =\$E75D |
| SOUND    | =\$E77E | SND1     | =\$E780 | SND25    | =\$E797 | SND50    | =\$E797 |
| SND85    | =\$E7B9 | SND99    | =\$E7BC | FVTBL    | =\$E7BD | SONG1A   | =\$E7ED |
| SONG1B   | =\$E7DF | SONG2A   | =\$E7E6 | FVBULL   | =\$E80D | FVCANN   | =\$E80F |
| FVEXP1   | =\$E815 | FVMBUN   | =\$E81C | FVRUN    | =\$E827 | FVTANK   | =\$E831 |
| VOLTBL   | =\$E835 | DURTBL   | =\$E83D | WDTBL    | =\$E84B | WDSONG1A | =\$E81B |
| WDSONG1B | =\$E86D | WDSONG2A | =\$E874 | WDBULL   | =\$E899 | WDCANN   | =\$E89D |
| WDEXP1   | =\$E8A3 | WDMGUN   | =\$E8AA | WDRUN    | =\$E8BE | WDTANK   | =\$E8BF |
| LOSND    | =\$E8C3 | HISND    | =\$E8C7 | SON99    | =\$E8CD | RADIO    | =\$E8CE |
| POSADR   | =\$E8D1 | PADRND1  | =\$E8D1 | PADRND2  | =\$E8D6 | PADRND3  | =\$E8D9 |
| IGAME    | =\$E8E0 | IRGUND   | =\$E8F4 | IDINO    | =\$E906 | EGGTBL   | =\$E937 |
| ANIMEXP  | =\$E93A | AN44     | =\$E94A | AN80     | =\$E95D | AN99     | =\$E955 |
| MOVEXP   | =\$E956 | BADMOV   | =\$E972 | ONLTR    | =\$E973 | EXON     | =\$E979 |
| ONPTL    | =\$E98C | NOROE    | =\$E98E | SPRIT6   | =\$E990 | SPR6     | =\$E99C |
| INVENT   | =\$E9AA | INVS     | =\$E9AC | EX1      | =\$E9B4 | INVTBL   | =\$E9C0 |
| ONPLAT   | =\$EB00 | ONP5     | =\$EB02 | IDPDS    | =\$EB0B | IDDIR    | =\$EB13 |
| IDDAT    | =\$EB15 | IDLN     | =\$EB1A | CLIFFHIT | =\$EB1F | RTRY     | =\$EB36 |
| HITCL    | =\$EB48 | MISSCL   | =\$EB4A | HITBL    | =\$EB4C | SILV0    | =\$EB4C |
| S1LV1    | =\$EB4C | S1LV2    | =\$EB51 | S1LV3    | =\$EB51 | S1LV4    | =\$EB55 |
| S1LV5    | =\$EB5D | S2LV5    | =\$EB5D | S2LV0    | =\$EB62 | S2LV1    | =\$EB67 |
| S2LV2    | =\$EB6C | S2LV3    | =\$EB71 | S2LV4    | =\$EB76 | S3LV0    | =\$EB7D |
| S3LV1    | =\$EB7D | S3LV2    | =\$EB82 | S3LV3    | =\$EB87 | S3LV4    | =\$EB87 |
| S3LV5    | =\$EB9C | LEVTL    | =\$EB8F | LEV0     | =\$EB8F | LEV1     | =\$EB92 |
| LEV2     | =\$EB95 | LEV3     | =\$EB98 | LEV4     | =\$EB98 | LEV5     | =\$EB9E |
| LEVEL0   | =\$EBA1 | BIRD1    | =\$EC00 | BIRD2    | =\$EC15 | BRDCL    | =\$EC2D |
| SCORE    | =\$ED00 | SCORNP   | =\$ED22 | SC4      | =\$ED26 | POS      | =\$ED57 |
| POS10    | =\$ED65 | SCORTB   | =\$ED6B | DGTBL    | =\$ED6B | COLE83   | =\$ED75 |
| COLECO   | =\$ED78 | NULLTB   | =\$ED7B | KONAMI   | =\$ED81 | FRESNT   | =\$ED87 |
| RNPOPE   | =\$ED8D | BONUS    | =\$ED93 | STAGE    | =\$ED99 | DINOTB   | =\$ED9F |
| DINOTBHI | =\$EDB3 | EXPING   | =\$EDC7 | ELEVING  | =\$EDCC | WATERINE | =\$EDDA |
| POSRTN   | =\$EDE2 | DATA2    | =\$EE00 | LETTRS   | =\$EE00 | LE       | =\$EE00 |
| LS       | =\$EE08 | LG       | =\$EE10 | LT       | =\$EE18 | LA       | =\$EE20 |
| PRES1    | =\$EE28 | PRES2    | =\$EE30 | PRES3    | =\$EE38 | PRES4    | =\$EE40 |
| PRES5    | =\$EE48 | PRES6    | =\$EE50 | RNR1     | =\$EE58 | RNR2     | =\$EE60 |
| RNR3     | =\$EE68 | RNR4     | =\$EE70 | RNR5     | =\$EE78 | RNR6     | =\$EE80 |
| NULL     | =\$EE88 | COLE1    | =\$EE90 | COLE3    | =\$EE90 | COLE2    | =\$EE99 |
| KONAM1   | =\$EEA0 | KONAM2   | =\$EEA8 | KONAM3   | =\$EEB0 | COPF1    | =\$EEB8 |
| COPR2    | =\$EEC0 | COPR3    | =\$EEC8 | POSTBL   | =\$EED0 | DATA1    | =\$EEF7 |
| DIGITS   | =\$EF57 | ZERO     | =\$EF57 | ONE      | =\$EF5F | TWO      | =\$EF67 |
| THREE    | =\$EF6F | FOUR     | =\$EF77 | FIVE     | =\$EF7F | SIX      | =\$EF87 |
| SEVEN    | =\$EF8F | EIGHT    | =\$EF97 | NINE     | =\$EF9F | BLANK    | =\$EFA7 |
| BON1     | =\$EFAE | BON2     | =\$EFB6 | BON3     | =\$EFBE | BON4     | =\$EFC6 |
| END      | =\$EFFE | WHITETB  | =\$F600 | MISC     | =\$F600 | EXPCOL   | =\$F61C |
| YELOTB   | =\$F62D | REDTBL   | =\$F649 | ROPE2    | =\$F665 | ROPE1    | =\$F66D |
| ELEV1    | =\$F6AA | ELEV2    | =\$F6AC | ELEV3    | =\$F6AE | ELEV4    | =\$F6B0 |
| WATER1   | =\$F6B0 | WATER5   | =\$F6BC | ELEV5    | =\$F6BE | WATER2   | =\$F6B2 |
| WATER6   | =\$F6B2 | ELEV6    | =\$F6B4 | WATER3   | =\$F6B4 | WATER7   | =\$F6B4 |
| ELEV7    | =\$F6B6 | WATER4   | =\$F6B6 | WATER8   | =\$F6B6 | ELEV8    | =\$F6B8 |
| EGG1     | =\$F6D4 | NULLM    | =\$F6DC | BIND1    | =\$F700 | DING2    | =\$F71B |
| DING3    | =\$F736 | DING4    | =\$F751 | DING5    | =\$F760 | DING7    | =\$F76C |
| DING6    | =\$F767 | DING8    | =\$F7A2 | DING9    | =\$F7BE | DINGX    | =\$F7DC |
| CAVE1    | =\$F800 | CAVE2    | =\$F801 | CAVE3    | =\$F81B | CAVE1    | =\$F796 |

|       |        |       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|-------|--------|
| CAVE1 | =#F800 | CAVE2 | =#F801 | CAVE3 | =#F802 | CAVE4 | =#F803 |
| CAVE5 | =#F804 | CAVE6 | =#F805 | CAVE7 | =#F806 | CAVE8 | =#F807 |
| CAVE9 | =#F808 | CAVEA | =#F809 | CAVEB | =#F80A | CAVEC | =#F80B |
| EXP3  | =#F733 | EXP4  | =#F734 | EXP5  | =#F735 | EXP6  | =#F736 |
| EXP7  | =#F737 | EXP8  | =#F738 | EXP9  | =#F739 | EXPA  | =#F73A |
| EXPB  | =#F73B | EXPC  | =#F73C | EXPD  | =#F73D | EXPE  | =#F73E |
| LAT3  | =#FF33 | LAT4  | =#FF34 | LAT5  | =#FF35 | LAT6  | =#FF36 |
| LAT7  | =#FF37 | LAT8  | =#FF38 | LAT9  | =#FF39 | LATA  | =#FF3A |
| LATB  | =#FF3B | LATC  | =#FF3C | LATD  | =#FF3D | LATE  | =#FF3E |